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PAUL E. KINDINGER, Director

July 1, 1988



Agriculture is Michigan's second leading industry and contributes approximately \$15.5 billion annually to the state's economy. In 1987 cash receipts from marketing farm commodities totalled nearly \$2.5 billion.

Michigan ranks second in the nation in the diversity of products grown. This diversity is due to our unique geographic location, varied soils and an abundant supply of fresh water.

The Michigan Agricultural Statistics Service (MASS) is an essential component in providing farmers with reliable and precise information which is needed to make wise production decisions. MASS data are equally important to processors, manufacturers, bankers, educators, government officials and consumers who make decisions related to agriculture and the food industry.

MASS has served a vital role in the Michigan Department of Agriculture for more than 110 years. MASS has helped shape the future of the industry by collecting, analyzing and publishing the state's agricultural statistics.

We hope you find the data contained in Michigan Agricultural Statistics 1988 useful and informative. Please contact the Michigan Agricultural Statistics Service if you have questions or comments.

Sincerely,

Paul E. Kindinger
Director



MICHIGAN AGRICULTURAL STATISTICS 1988

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COVER: The total wholesale value of sales by the floriculture industry in Michigan topped \$90 million in 1987, which placed Michigan fifth among all states in the greenhouse industry. Retail sales were worth about \$250 million. Photograph provided courtesy of Bedding Plants, Inc., Holt, Michigan and Ken Penewith Greenhouses, Utica, Michigan.

This bulletin is provided free to Michigan farmers and reporting agribusiness firms. Others may obtain copies at \$3.00 each. Please make checks payable to USDA-NASS and send it with your request to P.O. Box 20008, Lansing, MI 48901.



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Agricultural
Statistics
Service

Fact Finding
for Agriculture

P.O. Box 20008
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July, 1988

Dear Friends:

This year we are celebrating the 125 anniversary of our Agency, the National Agricultural Statistics Service (NASS)

The United States Department of Agriculture (USDA) was established by Congress in May 1862. Just 14 months later, in July 1863, the first Crop Report was published as one of the original services of USDA.

The importance of gathering and publishing basic agricultural data is documented in letters of President George Washington to an Englishman, Arthur Young, in 1791. These letters contained information on land values, rents, taxes, yields, livestock and crop prices in 4 states. Later, at least three Presidents, Van Buren, Taylor, and Lincoln mentioned the need of a more formal agricultural statistical system in their budget messages to Congress.

Following the lead of the national agricultural statistics program in 1863, the State of Michigan in 1868 passed legislation establishing a State "crop reporting" service under the direction of the Secretary of State. This service required reports from 1,200 township supervisors until the late 1800's. It continued on a voluntary basis until 1919.

On July 1, 1919 a formal federal-state cooperative agreement was signed between the USDA and the Michigan Secretary of State providing for a common agricultural data base. I am especially pleased and proud that after 69 years of continuous cooperation we in this office are still jointly carrying out the mandate and spirit of this historic agreement between the State and Federal governments.



The outstanding voluntary cooperation and support from thousands of farmers over the past 125 years stands as testimony to their spirit of generous public service and support. Because of their efforts, NASS today is recognized as the premier agricultural statistical agency throughout the world. To all of you, the active reporters of today, we say thank you for a job well done. We look forward to your continued support.

Sincerely,

Don J. Fedewa
State Statistician

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Michigan's Rank in the Nation's Agriculture, 1987

COMMODITY	Rank Among States	Production	Unit	Percent of U.S. Production	Leading State
		1,000			
Tart Cherries	1	265,000	Lbs.	73.9	Michigan
Cucumbers for Pickles	1	154.1	Tons	24.5	Michigan
Navy Beans	1	4,654	Cwt.	60.3	Michigan
Cranberry Beans	1	216	Cwt.	100.0	Michigan
Black Turtle Beans	1	112	Cwt.	55.2	Michigan
All Dry Beans	1	5,544	Cwt.	21.1	Michigan
Geraniums, Potted	1	14,200	Pots	15.4	Michigan
Prunes and Plums	2	16	Tons	29.9	Oregon
Apples	2	1,050,000	Lbs.	10.5	Washington
Bedding Plants	2	8,000	Flats	11.3	California
Easter Lilies, Potted	2	830	Pots	10.9	California
Gladioli	2	26,200	Spikes	13.3	Florida
Red Kidney Beans	3	294	Cwt.	16.9	California
Asparagus	3	242	Cwt.	10.3	California
Celery	3	1,147	Cwt.	6.4	California
Mushrooms ¹	3	20,171	Lbs.	3.4	Pennsylvania
Small White Beans	3	117	Cwt.	18.6	Washington
Tomatoes, Processing	4	118.5	Tons	1.6	California
Snap Beans, Processing	4	42.9	Tons	6.3	Wisconsin
Carrots	4	1,925	Cwt.	7.4	California
Sweet Cherries	4	32,000	Lbs.	15.2	Washington
Non-Fat Dry Milk	4	71,462	Lbs.	6.7	California
Floriculture	5	91,606	Dollars	4.3	California
Grapes	5	30	Tons	1.2	California
Sugarbeets	5	2,911	Tons	10.4	Minnesota
Cauliflower	5	72	Cwt.	.9	California
Other Lilies, Potted	5	65	Pots	7.3	California
Poinsettias, Potted	5	2,950	Pots	7.4	California
Milk	6	5,248,000	Lbs.	3.7	Wisconsin
Butter	6	27,495	Lbs.	2.5	Wisconsin
Pears	6	8	Tons	.9	California
Strawberries	6	132	Cwt.	1.2	California
Peaches	6	60,000	Lbs.	4.0	California
Spearmint	6	52	Lbs.	2.5	Washington
Corn for Silage	6	4,290	Tons	5.0	Wisconsin
Corn, Sweet	6	713	Cwt.	4.6	Florida
Ice Milk	6	12,972	Gallons	3.9	California
Rye	7	640	Bushels	3.2	N. Dakota
Ice Cream	8	34,508	Gallons	3.7	California
Creamed Cottage Cheese	8	31,605	Lbs.	4.7	New York
Onions	8	1,900	Cwt.	4.3	California
Alfalfa Hay	8	3,776	Tons	4.5	Wisconsin
Oats	8	17,100	Bushels	4.6	S. Dakota
Mink ¹	8	154.5	Pelts	4.0	Wisconsin
Milk Sherbet	9	1,893	Gallons	3.8	California
Corn for Grain	10	185,250	Bushels	2.6	Iowa
Lettuce	10	215	Cwt.	.4	California
Potatoes	10	10,870	Cwt.	2.8	Idaho
Pinto Beans	10	126	Cwt.	1.3	N. Dakota
Hogs and Pigs ²	11	1,350	Head	2.5	Iowa
Tomatoes, Fresh Market	12	252	Cwt.	.8	Florida
Soybeans	12	38,150	Bushels	2.0	Iowa
Eggs	12	1,656,000	Eggs	2.4	California
Turkeys	14	3,000	Birds	1.2	N. Carolina
All Hay	16	4,384	Tons	2.9	California
Winter Wheat	17	19,200	Bushels	1.2	Kansas
Barley	19	2,750	Bushels	.5	N. Dakota
Cash Receipts from Marketings	21	2,530,714	Dollars	1.9	California

¹ 1986 Data² December 1 inventory

Farm Numbers and Acreage, Michigan¹

YEAR	Number of Farms	Average Size per Farm	Total Land in Farms
		<i>Acres</i>	<i>1,000 Acres</i>
1987	58,000	195	11,300
1986	60,000	188	11,300
1985	62,000	184	11,400
1984	63,000	181	11,400
1983	64,000	178	11,400
1982	64,000	178	11,400
1980	65,000	175	11,400
1970	84,000	151	12,700
1960	118,000	131	15,400
1950	161,000	111	17,900
1940	190,000	97	18,400
1930	179,000	101	18,000
1920	196,447	97	19,033
1910	206,960	92	18,941
1900	203,261	86	17,562

¹ Starting with 1979, USDA estimates of farm numbers and land in farms is based on the definition "a farm is a place as of June 1 that sells or could sell \$1,000 of agricultural products during the year." Prior to 1979 farm definition was "places of 10 or more acres that had annual sales of \$50 or more or places that had annual sales of \$250 or more."

Value of Farm Real Estate, Michigan¹

YEAR	Average Value per Acre of Land and Buildings	Total Value of Land and Buildings	Farms Rented for Cash per Acre	Cropland Rented for Cash per Acre
	<i>Dollars</i>	<i>Million Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1987	833	9,416	41.51	41.87
1986	936	10,580	43.87	47.73
1985	1,052	11,993	46.05	51.09
1984	1,223	13,942	47.72	54.14
1983	1,223	13,942	51.70 ²	57.30 ²

¹ April 1, 1983-85, and February 1, 1986-87

² Estimates omit crop reporting districts 1, 2, 3 and 4.

Production Index by Groups, United States (1977 = 100)

YEAR	All Crops ¹	Feed Grains	Hay and Forage	Food Grains	Sugar Crops
1987	106	105	102	106	112
1986	107	123	106	107	106
1985	117	134	106	121	97
1984	111	116	107	129	95
1983	88	67	100	117	93

¹ Includes vegetables, fruits, nuts and some other crops not in separate groups shown, and farm vegetable gardens.

Michigan Crop Acreage, Production and Value

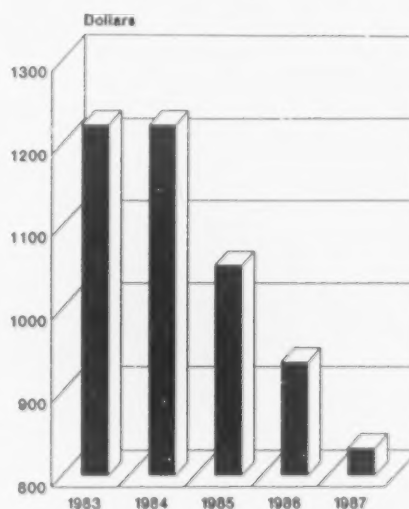
CATEGORIES AND ANNUAL TOTALS	Acreage Harvested	Total Production	Value of Production
	<i>1,000 Acres</i>	<i>1,000 Tons</i>	<i>1,000 Dollars</i>
1987 CROPS:			
Field Crops ¹	6,267	19,671	1,070,413
Fruit	117	804	150,043
Vegetables	106	652	113,345
TOTAL CROPS:			
1987	6,490	21,127	1,333,801
1986	7,204	23,525	1,343,233
1985	7,904	26,070	1,763,898
1984	7,935	23,055	1,790,151
1983 ³	6,380	20,362	1,712,185

¹ Includes minor crops.

² Includes 1987 sugarbeet production valued at the 1986 level.

³ Does not include asparagus and cucumbers for pickles.

Average Value Per Acre of Land and Buildings



Production Index by Groups, Michigan (1977 = 100)

YEAR	All Crops ¹	Feed Grains ²	Hay	Cash Crops ³	Fruit
1987	116	88	154	127	165
1986	134	121	201	111	112
1985	149	136	200	134	163
1984	129	105	185	126	128
1983	107	79	157	114	113

¹ Includes feed grains, hay, cash crops and fruit.

² Corn, oats and barley.

³ Wheat, dry beans, soybeans, sugarbeets and potatoes.

Record Highs and Lows In Michigan Agriculture

FIELD CROPS & VEGETABLES	Year Estimates Started	Record	Acreage		Yield			Production	
			Harvested	Year	Unit	Per Acre	Year	Total	Year
			1,000					1,000	
Corn for grain	1924	High	2,800	1981	Bu.	107	1982	293,180	1982
		Low	577	1929		24.5	¹	15,637	1929
Winter Wheat	1909	High	1,515	1953	Bu.	60	1985	45,600	1984
		Low	400	1987		10.5	1912	7,350	1912
Oats	1866	High	1,658	1918	Bu.	67	1985	69,388	1946
		Low	205	1866		18.5	1921	6,490	1867
Barley	1866	High	303	1932	Bu.	68	1985	8,400	1918
		Low	16	1974		13.5	1933	546	1866
Rye	1866	High	913	1919	Bu.	32	1967	12,143	1919
		Low	7	1866		8.8	1934	105	1866
Soybeans	1924	High	1,190	1984	Bu.	35	1987	38,150	1987
		Low	1	1930		8	1927	10	1930
Potatoes	1866	High	374	1895	Cwt.	267	1986	23,256	1904
		Low	36.4	1975		26	²	3,557	1876
Dry Beans	1909	High	690	1930	Cwt.	14.7	1963	8,585	1963
		Low	314	1921		3.2	1917	1,656	1916
Sugarbeets	1906	High	154	1933	Ton	21.3	1970	2,911	1987
		Low	48	1943		5.5	1916	298	1943
All Hay	1866	High	2,907	1924	Ton	3.3	1985	5,743	1986
		Low	780	1866		.6	1895	1,014	1866
Alfalfa	1919	High	1,444	1950	Ton	3.6	³	5,040	⁴
		Low	74	1919		1.1	1934	118	1919
Spearmint	1935	High	8.7	1954	Lb.	47	1935	280	1948
		Low	.7	1935		20	1965	30	1965
Carrots	1929	High	7.5	1984	Cwt.	350	1930	2,025	1984
		Low	.5	1929		150	1959	132	1936
Cauliflower	1939	High	1.9	1958	Cwt.	141	1949	212	1949
		Low	.7	⁵		36	1959	38	1973
Celery	1928	High	7.2	1941	Cwt.	470	1982	1,918	1941
		Low	1.9	1960		174	1935	590	1959
Lettuce	1952	High	1.7	1963	Cwt.	250	⁶	384	1967
		Low	1.0	1987		85	1953	110	1953
Onions	1928	High	12.7	1935	Cwt.	350	1960	2,933	1984
		Low	5.0	1928		120	1935	852	1928
Snap Beans (Proc.) . . .	1918	High	19.5	1987	Ton	2.8	⁷	49,000	1984
		Low	.8	1921		.6	1947	600	1921
Sweet Corn	1949	High	15.2	1961	Cwt.	80	1970	1,016	1970
		Low	9.5	1956		42	1949	525	1949
Strawberries	1928	High	11.6	1957	Lb.	9,000	⁸	45,144	1940
		Low	2.2	1987		1,080	1934	11,880	1934
Tomatoes (Proc.) . . .	1918	High	9.7	1982	Ton	25.2	1985	205	1982
		Low	1.0	1921		2.7	1943	5	1921
Tomatoes (Fresh) . . .	1928	High	9.4	1943	Cwt.	120	⁹	797	1943
		Low	2.5	1928		60	1959	206	1930

¹ 1930, 1934² 1887, 1916³ 1983, 1985, 1986⁴ 1985, 1986⁵ 1976, 1986⁶ 1982, 1985⁷ 1980, 1983, 1984⁸ 1976, 1982⁹ 1979, 1983, 1984

Record Highs and Lows In Michigan Agriculture (Continued)

FRUIT	Year Estimates Started	Record	Trees Of Bearing Age	Year	Production		
					Unit	Total	Year
Apples	1889	High Low	1,000 10,928 2,200	1899 ¹⁰	Mil. Lbs.	1,100 53	1985 1945
Tart Cherries	1925	High Low	3,650 1,339	¹¹ 1929	Mil. Lbs.	380 18	1964 1927
Sweet Cherries	1925	High Low	980 79	¹² 1929	Mil. Lbs.	75 1	1978 1945
Peaches	1889	High Low	12,500 400	1898 1982	Mil. Lbs.	245 7	¹³ 1918
Pears	1889	High Low	1,319 150	1898 1987	Ton	48,600 2,425	1964 1890
Prunes & Plums	1919	High Low	750 209	1972 1941	Ton	25,000 1,700	1971 1945
Grapes ¹⁴	1889	High Low	18,500 5,300	1929 1987	Ton	77,900 4,200	1932 1889

LIVESTOCK & PRODUCTS	Year Estimates Started	Record	Inventory January 1 Or Production		
			Unit	Total	Year
Cattle & Calves	1867	High Low	1,000 Head	2,036 538	1944 1867
Milk Cows	1867	High Low	1,000 Head	1,080 225	1945 1867
Cattle on Feed	1930	High Low	1,000 Head	245 57	1973 1931
Hogs & Pigs	1867	High Low	1,000 Head	1,397 512	1944 1935
Sheep	1867	High Low	1,000 Head	3,100 105	1867 1988
Chickens (all)	1924	High Low	1,000 Head	15,512 7,530	1944 1963
Turkeys (Number Raised)	1929	High Low	1,000 Head	2,700 253	1986 ¹⁵
Milk	1924	High Low	Mil. Lbs.	5,758 3,941	1964 1927
Eggs	1924	High Low	Mil. Eggs	1,697 1,104	1944 1929
Wool	1934	High Low	1,000 Lbs.	8,424 722	1934 1987

¹⁰ 1960, 1961¹¹ 1963, 1964, 1965, 1966, 1967¹² 1973, 1974, 1975¹³ 1945, 1946¹⁴ Vines of bearing age.¹⁵ 1929, 1930

Cold Storage

In 1987, Michigan had 298 refrigerated warehouses, one more than two years ago. Fifty-five were general storages, and 243 were apple storages. Michigan's 92 million cubic feet of gross refrigerated storage ranked eighth among the states. Michigan ranked second in controlled atmosphere (CA) storage, as its 118 CA storages can hold 6.9 billion bushels.

Refrigerated warehouses are facilities artificially cooled to 50°F or lower where food is normally stored for 30 days or more. These figures do not include warehouses operated by wholesale distributors, grocery chains, or other businesses that store food products less than 30 days, nor do they include locker plants or space operated by the armed forces.

Refrigerated Warehouses¹

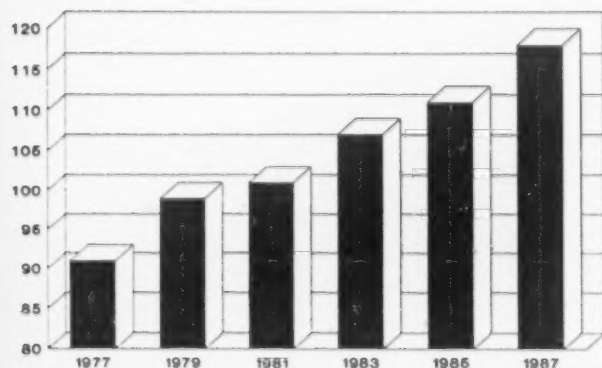
STORAGES	Refrigerated Warehouses	Gross Refrigerated Space	Usable Refrigerated Space	Gross Cooler Space	Usable Cooler Space	Gross Freezer Space	Usable Freezer Space
	<i>Number</i>	<i>1,000 Cu. Ft.</i>	<i>1,000 Cu. Ft.</i>	<i>1,000 Cu. Ft.</i>	<i>1,000 Cu. Ft.</i>	<i>1,000 Cu. Ft.</i>	<i>1,000 Cu. Ft.</i>
General:							
Public	25	36,709	28,768	5,102	3,943	31,607	24,824
Private and Semi-Private	30	22,104	15,809	4,533	3,974	17,571	11,835
APPLE:							
Public	8	1,625	1,414	1,233	1,100	2	2
Private and Semi-Private	235	31,185	26,974	30,709	26,587	2	2
TOTAL ³	298	91,624	72,964	41,578	35,605	50,046	37,359

¹ October 1, 1987

² Not published to avoid disclosure of individual plants.

³ State total does not add due to rounding.

Controlled Atmosphere Storages



Controlled Atmosphere Space¹

YEAR	Michigan		United States	
	Storages	Capacity	Storages	Capacity
	<i>Number</i>	<i>1,000 Bushels</i>	<i>Number</i>	<i>1,000 Bushels</i>
1987	118	6,927	594	94,622
1985	111	6,734	590	84,733
1983	107	5,998	578	78,506
1981	101	4,995	561	63,815
1979	99	4,429	560	55,428
1977	91	3,657	537	46,226

¹ October 1

Farm Labor

Estimates on the number of farm workers and wage rates were first published at the national level in 1909. Currently, farm labor estimates are published quarterly by region. There are 18 regions published during the April, July and October quarters while only 5 regions are published in January. The 18 regions represent all States, except Alaska. Michigan is part of the Lake Region which includes Minnesota and Wisconsin. The Lake Region does not publish labor estimates in January.

A self-employed worker is a farm operator or partner who did at least one hour of unpaid agricultural work on the farm. An unpaid worker is anyone, other than a self-employed worker, who did at least 15 hours of unpaid agricultural work on the farm.

A hired worker is anyone, other than an agricultural service worker, who was paid for at least one hour of agricultural work on a farm. Worker type is determined by what the employee was primarily hired to do, not necessarily what work was done.

Hours Worked and Wage Rates¹

YEAR & MONTH	Hours Worked Per Week			Wage Rates for All Hired Workers
	Self-employed	Unpaid	Hired	
	<i>Hours</i>			<i>Dollars Per Hour</i>
1987				
April	54.3	37.0	39.9	4.35
July	56.8	41.0	33.1	4.32
October	59.8	36.9	41.0	4.45
1986				
April	49.8	33.6	34.3	3.94
July	56.2	40.0	35.1	4.10
October	61.3	38.1	39.9	4.29

¹ Lake Region (Michigan, Minnesota, Wisconsin)

Workers on Farms¹

YEAR & MONTH	All Farm Workers	Self-employed	Unpaid	Hired		
				Number of Workers	Expected to be Employed	
					150 Days or More	149 Days or Less
	1,000	1,000		1,000		
1987						
April	346	187	80	79	56	23
July	412	175	105	132	57	75
October	354	172	96	86	55	31
1986						
April	333	179	76	78	60	18
July	434	177	129	128	55	73
October	383	180	119	84	49	35

¹ Lake Region (Michigan, Minnesota, Wisconsin)

Wage Rates for Hired Workers¹

YEAR & MONTH	Type of Work					Method of Pay		
	Field	Livestock	Field & Livestock	Supervisory	Other	Hourly	Piece Rate	Other
	<i>Dollars Per Hour</i>					<i>Dollars Per Hour</i>		
1987								
April	4.36	3.88	4.15	²	6.07	4.09	²	4.94
July	4.51	3.69	4.17	7.01	²	4.47	4.50	3.89
October	4.92	3.68	4.35	5.73	²	4.77	5.98	3.66
1986								
April	4.24	3.37	3.62	²	4.96	4.03	²	3.65
July	4.38	3.36	3.98	²	4.35	4.12	5.69	3.45
October	4.41	3.66	4.07	²	4.74	4.51	²	3.72

¹ Lake Region (Michigan, Minnesota, Wisconsin)

² Insufficient data

INCOME AND PRICES

Cash receipts from 1987 marketings of Michigan crops, livestock and livestock products declined from a year earlier. Total cash receipts, \$2.5 billion, were down 5 percent from 1986. Crop cash receipts, \$1.27 billion, were down 11 percent, while livestock receipts were up nearly 2 percent. Michigan placed 21 nationally in total cash receipts. Cash receipts statistics provide a partial measure of gross farm income. To arrive at net farm income, one must also consider farm production expenses, government payments, net changes in inventories of commodities held by farmers, and income from other farm-related sources.

Detailed farm expense data for Michigan is not yet available for 1987. Preliminary U.S. data shows

that prices farmers paid for production inputs, interest, taxes, and wage rates increased by slightly over 1 percent during 1987. This was the first increase since 1984. Production inputs showing the largest price increases from 1986 to 1987 were feeder livestock, autos and trucks, and fuels and energy. Farm wage rates and taxes also increased. Input costs for seed, farm and motor supplies, tractors and other farm machinery, and building and fencing materials were basically unchanged. Inputs showing cost decreases included feed, fertilizer, agricultural chemicals, farm services and cash rents. Interest paid by farmers also declined. Preliminary estimates placed 1987 U.S. net farm income at \$45 billion, up 20 percent from the 1986 income of \$37.5 billion.

Farm Income

Statistics on 1987 Michigan net farm income and farm financial conditions will be published in the fall of 1988, too late to be included in this bulletin. Tables in this section provide updated farm income and finance statistics for recent years through 1986. The farm financial situation showed little improvement during 1986. Farm financial problems were aggravated by the record rainfall and flooding that struck many mid-Michigan counties in the fall. State-wide, total farm debt declined by 11 percent from 1985. This was offset by an 11 percent drop in the total value of farm assets. Lower farm real estate values accounted for most of the drop in farm assets. The debt/asset ratio of 26.9 was unchanged from a year earlier. This was the first time in several years that the debt/asset ratio failed to increase.

Net farm income dropped 14 percent during 1986 as lower farm production expenses failed to offset a large drop in gross farm income. Gross farm income, \$3.2 billion, was down 10 percent from 1985. Cash income (receipts) from farm marketings,

nearly \$2.7 billion, dropped 9 percent. A large increase in government payments kept gross farm income from falling even more. After declining in 1985, government payments rose sharply to nearly \$221 million in 1986. Feed grain programs accounted for most of the increase. Government payments equaled nearly 38 percent of net farm income. As recently as 1981, government payments equaled only 3 percent of net farm income. Reductions in noncash income and a sharply lower value of inventory adjustment also reduced gross farm income. Farm production expenses totaled \$2.6 billion, down 9 percent from the previous year. Other farm income includes earnings from sources such as forest product sales, recreation, machine hire and custom work. Noncash income includes allowances for the value of home consumption of farm commodities and the rental value of farm dwellings. The value of inventory adjustment is the net year-to-year change in the quantity of grain and livestock owned by farmers at the end of each year.

Michigan Farm Balance Sheet

ITEM	1986	1985	1984	1983	1982
<i>Million Dollars</i>					
Total Farm Assets	12,534.9	14,138.8	15,505.2	17,258.8	17,296.9
Real estate ¹	8,231.2	9,318.1	10,458.6	12,142.1	12,117.2
Livestock and poultry ²	798.3	773.2	855.7	835.5	907.6
Machinery and motor vehicles	2,368.9	2,621.0	2,913.5	3,004.6	3,023.5
Crops ³	385.8	687.1	556.9	601.9	610.5
Financial assets	750.8	739.4	720.4	674.7	638.2
Total Farm Debt	3,377.2	3,807.8	3,991.9	3,898.2	3,744.3
Real estate debt ⁴	1,941.4	2,202.8	2,294.0	2,242.0	2,117.8
Nonreal estate debt ⁵	1,435.8	1,605.0	1,697.8	1,656.3	1,626.5
Equity	9,157.7	10,331.1	11,513.3	13,360.6	13,552.6
Debt/Assets Ratio	26.9	26.9	25.7	22.6	21.6

¹ Excludes value of operator dwellings² Excludes equine and broilers³ All non-CCC crops held on farms plus the value above loan rate for crops held under CCC⁴ Excludes debt on operator dwellings, but includes CCC storage and drying facility loans⁵ Excludes debt for nonfarm purposes

Gross and Net Income, Michigan

ITEM	1986	1985	1984	1983	1982
<i>Million Dollars</i>					
Gross farm income ¹	3,204.5	3,568.5	3,678.9	3,347.4	3,478.6
Cash Income					
Farm marketings	2,664.4	2,923.0	2,791.6	2,923.0	2,759.0
Crops	1,428.5	1,691.7	1,493.9	1,656.1	1,582.7
Livestock and products	1,235.9	1,231.3	1,297.6	1,266.8	1,176.3
Government payments	220.9	116.6	167.7	144.4	40.4
Other farm income ²	188.7	188.6	158.1	128.9	124.8
Noncash Income					
Value of home consumption	23.1	24.4	25.9	30.3	33.5
Rental value of farm dwellings	271.3	310.3	356.6	389.8	416.6
Value of inventory adjustment	-163.8	5.5	179.0	-269.0	104.2
Total production expenses ¹	2,620.8	2,893.4	3,100.6	3,115.8	2,998.5
NET FARM INCOME	583.7	675.0	578.3	231.6	480.1

¹ Includes operator households² Includes forest product sales, recreational income, machine hire and custom work, and other farm business-related income

Income per Farm

YEAR	Michigan		United States	
	Gross Income	Net Income	Gross Income	Net Income
<i>Dollars</i>				
1986	53,408	9,728	72,127	16,948
1985	57,556	10,887	72,989	14,214
1984	58,395	9,179	75,026	13,753
1983	52,303	3,619	64,579	5,354
1982	54,353	7,502	68,111	9,800

Cash Receipts from Marketings, Michigan

COMMODITY	1986	1985	1984	1983	1982
<i>1,000 Dollars</i>					
LIVESTOCK & PRODUCTS					
Dairy	672,316	697,078	709,538	739,946	703,906
Cattle & Calves	231,506	230,022	248,224	252,844	234,484
Hogs	195,293	178,243	203,601	163,245	132,554
Eggs	64,116	59,255	75,350	63,743	64,473
Sheep & Lambs	4,957	4,919	4,586	3,389	4,017
All Chickens	3,744	5,406	3,338	3,607	3,041
Turkeys	35,802	31,096	27,825	19,950	19,188
Other Livestock	28,131	25,296	25,164	20,111	14,654
TOTAL LIVESTOCK & PRODUCTS	1,235,865	1,231,315	1,297,626	1,266,835	1,176,317
CROPS					
Field Crops & Vegetables:					
Corn	400,851	476,453	297,416	433,194	490,630
Dry Edible Beans	65,872	79,487	92,054	121,710	114,148
Soybeans	138,356	211,441	180,262	232,546	218,442
Sugarbeets	67,725	79,980	72,825	71,531	66,337
Wheat	70,168	137,601	138,756	123,997	73,094
Potatoes	62,997	63,998	80,736	66,003	51,038
Hay	60,109	55,678	47,593	37,759	37,212
Oats	10,766	22,764	21,373	22,826	20,583
Mushrooms	16,760	16,498	16,329	15,977	13,446
Mint	1,053	1,113	1,700	1,534	1,788
Rye	595	713	743	753	923
Barley	2,019	2,363	1,725	1,748	2,281
Vegetables	139,984	153,835	175,520	167,437	158,186
Other Crops ¹	12,600	13,295	13,363	12,943	12,911
Fruit:					
Apples	89,401	66,761	62,227	62,022	57,744
Cherries	51,300	63,640	62,675	50,911	36,805
Grapes	8,164	10,952	8,131	11,593	11,710
Peaches	8,864	11,515	7,700	7,418	9,504
Strawberries	6,366	6,300	7,076	8,412	11,476
Pears	2,558	1,933	2,404	1,804	2,334
Prunes & Plums	2,668	3,285	3,310	2,317	2,694
Other Fruit ²	35,350	33,268	22,602	30,694	24,442
Other Products ³ :					
Greenhouse, Nursery, Ornamentals	174,012	178,836	177,421	171,000	165,000
TOTAL CROPS	1,428,538	1,691,709	1,493,941	1,656,129	1,582,728
TOTAL CASH RECEIPTS	2,664,403	2,923,024	2,791,567	2,922,964	2,759,045

¹ Includes seed crops, maple syrup, miscellaneous field crops.² Includes Blueberries.³ Forestry products receipts no longer counted as cash receipts, but are included in the other farm-related income component of gross farm income.

Government Payments, Michigan

PROGRAM	1986 ¹	1985	1984	1983	1982
<i>1,000 Dollars</i>					
Conservation Programs	2,533	3,687	3,947	3,684	4,181
Wheat Programs	24,579	14,840	11,401	7,762	3,970
Feed Grain Programs	151,624	79,661	13,533	37,134	13,562
Misc. Programs ²	42,174	18,433	138,788	95,809	18,704
TOTAL	220,910	116,621	167,669	144,389	40,417

¹ Includes both cash payments and payment in kind (PIK).² Programs included are: Wool Act, Water and Lakes, Conservation Reserve, Livestock Indemnity, Animal Waste Management, Forest Incentive, Dairy Indemnity, Dairy Termination, Emergency Feed, Extended Storage, PIK Storage, Milk Diversion, and Payment In Kind (PIK).

Prices Received for Livestock and Livestock Products

YEAR OR MONTH	All Hogs per Cwt. ¹	Beef Cattle per Cwt. ²	Cows per Cwt. ³	Steers & Heifers per Cwt.	Milk Cows per Head ⁴	Calves per Cwt.	Eggs per Doz. ¹	All Milk Wholesale per Cwt.
	Dollars						Cents	Dollars
1987 January	46.30	47.40	38.70	53.50	850	62.30	40	13.50
February	47.40	48.20	39.70	54.60	—	61.40	40	13.10
March	46.70	50.50	41.80	57.00	—	69.00	38	12.70
April	50.70	53.70	42.90	60.10	920	71.30	39	12.40
May	53.90	55.90	44.10	61.90	—	76.60	30	12.10
June	57.50	55.80	43.90	62.00	—	80.00	36	12.00
July	56.70	52.30	42.20	60.00	950	76.90	34	12.00
August	56.00	53.10	42.80	60.40	—	78.70	38	12.20
September	53.00	55.40	44.30	62.10	—	80.50	45	12.60
October	47.50	53.20	44.40	61.70	950	75.00	38	12.90
November	40.30	51.10	43.00	59.00	—	69.00	35	13.00
December		52.00	44.60	59.50	—	64.00	27	12.90
1987	50.00	52.50	42.80	59.50	920	71.90	39	12.60
1986	48.30	44.50	35.20	51.80	810	55.00	47	12.60
1985	43.90	46.30	36.10	52.10	865	53.30	42	12.70
1984	46.80	48.20	38.50	56.50	915	54.10	60	13.50
1983	47.00	47.20	39.10	54.30	1,070	57.00	52	13.60

¹ Prices pertain to the marketing year, previous December through November² Combined price for "cows" and "Steers and Heifers"³ Beef cows sold for slaughter and herd replacement, and cull dairy cows sold for slaughter⁴ Sold for dairy herd replacement only. Price series changed to quarterly, January 1982Index of Prices Received for Crop Commodity Groups
(1977 = 100)

YEAR	Crops				
	All Crops	Cash Field	Fruit	Vegetables	Feed Crops
1987	96	122	90	92	83
1986	96	110	85	79	93
1985	107	117	84	74	112
1984	133	139	107	123	138
1983	119	127	86	83	129
1947-1949	55	65	41	34	73
1935-1939	21	25	17	13	31
1910-1914	22	25	17	—	39

Index of Prices Received for Livestock Commodity Groups
(1977 = 100)

YEAR	Livestock				ALL LIVESTOCK AND CROPS
	All Livestock	Dairy Products	Meat Animals	Poultry and Eggs	
1987	132	131	146	74	112
1986	128	132	130	100	111
1985	127	132	129	84	116
1984	136	140	136	112	134
1983	135	141	132	108	126
1947-1949	55	45	57	113	55
1935-1939	23	19	21	55	23
1910-1914	19	16	17	49	20

Farm Expenses

Prices Paid by Michigan Farmers: Annual Averages

COMMODITY	Unit	1987	1986 ¹	1985	1984	1983
<i>Dollars</i>						
Framing lumber, 2"×4" fir	M bd. ft.	391.00	382.00	343.00	363.00	383.00
Roofing, gal. steel, 28-29 Ga.	100 sq. ft.	41.00	41.00	43.00	44.00	48.00
Plywood, ½" C-D-X, 4'×8'	Sheet	9.60	9.65	9.25	9.15	9.45
Post, steel	Each	2.50	2.60	3.00	3.10	3.30
Dairy feed, 16% protein	Ton	153.00	167.00	188.00	200.00	194.00
Hog conc., 38-42% protein	Cwt.	13.80	13.50	13.60	15.70	15.80
Soybean meal, 44% protein	Cwt.	11.00	10.70	9.70	12.80	14.20
Gasoline, regular, bulk	Gallon	.955	.968	1.167	1.179	1.189
Diesel fuel	Gallon	.748	.829	1.044	1.072	1.056
Motor oil, HD, detergent	Gallon	4.58	4.69	3.90	4.05	4.20
Truck tire, 7.50-16, load range D	Each	73.15	73.00	70.50	59.00 ²	63.75 ²
Tractor tire, 18.4-38, 6 ply	Each	395.00	405.00	355.00	321.00 ³	373.00 ³
Tractors: 110-129 hp.	Each	39,500	38,500	41,000	43,300	40,200
170-240 hp. 4-wd.	Each	75,400	76,000	73,500	79,500	79,000
Corn planter, 4-row ⁴	Each	8,930	8,600	9,000	8,900	8,400
Plows, 1-way: 5 bottom	Each	6,610	6,700	7,350	7,850	8,800
Grain drill, 15-17 tube	Each	5,650	5,700	4,200	4,250	4,075
5-20-20	Ton	150.00	144.00	148.00	164.00	156.00
12-12-12	Ton	146.00	147.00	154.00	165.00	154.00
18-46-0	Ton	227.00	215.00	230.00	256.00	236.00
Anhydrous Ammonia	Ton	180.00	197.00	253.00	283.00	238.00
2, 4-D, 4 lb./gal. emul.	5 gallon	48.70	45.00	49.50	48.75	55.00
Atrazine, WP, 80%	5 lb.	8.80	8.60	7.85	8.60	9.65
Lasso, 4 lb./gal. emul.	5 gallon	96.80	100.00	99.00	98.50	98.00
Bladex, 4 lb./gal. liquid	Gallon	18.50	18.00	17.70	17.00	⁵
Dual, 8 lb./gal. emul.	Gallon	42.20	48.40	47.25	47.25	⁵
Treflan, 4 lb./gal. emul.	5 gallon	126.00	125.00	125.00	133.00	163.00

¹ The National Agricultural Statistics Service in February 1986, reduced the monthly Prices Paid by Farmers Surveys to a quarterly basis due to budget reductions. Starting in 1986 Prices Paid by Michigan farmers are not available and only national or regional estimates are published.

² Truck tire, 7.00-15, 6 ply.

³ Tractor tire, 18.4-34, 6 ply.

⁴ With fertilizer attachment.

⁵ Not available.

Farm Production Expenses, Michigan

ITEM	1986	1985	1984	1983	1982
<i>Million Dollars</i>					
Feed	228.1	257.5	286.5	317.1	257.6
Livestock	27.7	27.9	42.0	52.9	54.3
Seed	98.9	111.1	114.3	99.2	105.2
Fertilizer and lime	181.1	205.6	252.2	216.3	246.3
Pesticides	115.5	128.4	127.1	110.7	114.2
Fuel and oil	110.1	151.4	164.2	172.5	181.3
Electricity	47.5	48.1	48.5	48.0	45.7
Repair and maintenance	190.5	188.1	187.3	187.4	180.8
Other miscellaneous ¹	293.2	318.6	342.3	344.1	291.6
Real estate interest	205.6	222.4	238.6	242.8	231.4
Nonreal estate interest	159.2	178.8	172.8	181.1	189.9
Contract and hired labor expenses	207.5	205.8	204.0	204.8	212.4
Net rent to nonoperator landlords	24.6	51.2	53.7	16.9	31.4
Capital consumption	524.4	570.6	647.9	681.2	656.0
Property taxes	206.9	228.1	219.2	240.6	200.4
TOTAL PRODUCTION EXPENSES	2,620.8	2,893.4	3,100.6	3,115.8	2,998.5

¹ Includes machine hire and custom work, marketing, storage, and transportation expenses.

Michigan Production Costs Per Planted Acre 1986¹

ITEM	Corn	Soybeans	Oats	Soft Red Winter Wheat
<i>Dollars</i>				
Cash Receipts:				
Primary Crop	150.41	138.32	42.79	105.00
Secondary Crop	—	—	7.74	13.17
Total	150.41	138.32	50.53	118.17
Cash Expenses:				
Seed	16.15	8.83	5.51	11.74
Fertilizer	48.91	19.96	21.54	33.53
Lime and Gypsum	.63	.63	2.03	1.78
Chemicals	18.13	19.24	1.25	1.22
Custom Operations	8.29	4.02	4.67	5.26
Fuel, Lube, and Electricity	5.40	4.71	4.93	5.11
Repairs	8.19	6.29	7.05	7.53
Hired Labor	1.23	1.29	1.28	.90
Drying	4.14	—	—	—
Miscellaneous	.46	—	.63	.44
Technical Services	.14	—	.21	.21
Total, Variable Expenses	111.67	64.97	49.10	67.73
General Farm Overhead	18.37	15.49	5.97	10.01
Taxes and Insurance	31.04	30.54	28.82	30.99
Interest	59.20	49.93	18.52	32.28
Total, Fixed Expenses	108.61	95.96	53.31	73.29
Total, Cash Expenses	220.28	160.93	102.41	141.01
Receipts Less Cash Expenses	- 69.87	- 22.61	- 51.88	- 22.84
Capital Replacement	31.47	24.50	22.09	25.05
Receipts Less Cash Expenses and Replacement	- 101.34	47.11	- 73.97	- 47.89
Economic (Full Ownership) Costs:				
Variable Expenses	111.67	64.97	49.10	67.73
General Farm Overhead	18.37	15.49	5.74	10.01
Taxes and Insurance	31.04	30.54	28.82	30.99
Capital Replacement	31.47	24.50	22.09	25.05
Allocated Returns to Owned Inputs:				
Return to Operating Capital	2.78	1.49	.80	2.51
Return to Other Nonland Capital	6.15	4.56	4.58	5.06
Net Land Rent	16.38	21.77	1.95	8.47
Unpaid Labor	9.95	8.61	12.99	10.40
Total, Economic Costs	227.81	171.93	126.30	160.23
Residual Returns to Management and Risk	- 77.40	- 33.61	- 75.77	- 42.06
Harvest-Period Price (Dollars/Bu.)	1.45	4.55	.83	2.34
Yield (Bu./Planted Acre)	103.73	30.40	51.55	44.87

¹ SOURCE: Economic Research Service, state-level costs of production, 1986, preliminary.

Index of Prices Paid by Farmers: Annual Averages, United States, 1983-87

INDEX	1987	1986	1985	1984	1983
1977 = 100					
Prices Paid by Farmers for Commodities & Services, Interest, Taxes, and Wage Rates (Parity Index 1910-14) ..	162	159	163	165	161
Production Items	147	144	151	155	152
Interest	207	219	237	257	258
Taxes	136	134	133	132	129
Wage Rates	167	160	154	151	148
Production Items, Interest, Taxes, and Wage Rates	152	150	157	162	159
Family Living — CPI ¹	187	181	177	171	164

¹ Bureau of Labor Statistics, Consumer Price Index for all Urban Consumers.

FIELD CROPS

General Information

Production of field crops for food and livestock feed is the nucleus of agriculture in Michigan. The value of field crops at the farm level in 1987 fell about 2 percent from 1986 to just under \$1.0 billion. The State regained the lead in the production of dry beans. It ranks in the top ten states in the production of corn, alfalfa hay, potatoes, oats, sugarbeets and spearmint.

The 1987 planting season got off to a fast start. Ideal weather conditions helped farmers complete spring fieldwork ahead of normal. Crop development

was pushed by an unusually high accumulation of growing degree days during the spring. There were drought worries in June and July, but timely late summer and early fall rains helped spring-planted crops bounce back. This moisture combined with a late fall helped most crops reach full maturity before the first killing frost. Fall rains slowed harvesting during October and November, but most crops were out of the field before any significant loss was encountered.

Acreage and Production, United States

CROP	Area Harvested		Unit	Yield per Acre		Production	
	1987	1986		1987	1986	1987	1986
	1,000 Acres					1,000	
Corn, for grain	59,167	69,159	Bu.	119.4	119.3	7,064,143	8,249,864
Corn, silage	5,872	6,274	Ton	14.6	14.1	85,586	88,660
Oats	6,925	6,860	Bu.	54.0	56.3	373,765	386,356
Barley	10,027	12,007	Bu.	52.6	50.8	527,010	610,522
Wheat, all	55,930	60,723	Bu.	37.6	34.4	2,105,200	2,091,635
Winter	39,317	43,205	Bu.	39.8	35.2	1,562,896	1,521,498
Durum	3,279	2,877	Bu.	28.2	34.0	92,617	97,907
Other Spring	13,334	14,641	Bu.	33.7	32.3	449,687	472,230
Rye	683	677	Bu.	28.9	28.8	19,718	19,522
Soybeans	56,437	58,292	Bu.	33.7	33.3	1,904,712	1,940,101
Hay, all	60,748	62,419	Ton	2.46	2.49	149,142	155,529
Hay, Alfalfa	25,485	26,793	Ton	3.32	3.42	84,554	91,552
Hay, Other	35,263	35,626	Ton	1.83	1.80	64,588	63,977
Dry Beans ¹	1,708.4	1,495.0	Cwt.	1,540.0	1,531.0	26,309	22,886
Potatoes, all	1,282.1	1,219.6	Cwt.	301.0	296.0	385,774	361,511
Sugarbeets	1,255.4	1,191.2	Ton	22.3	21.1	27,999	25,162
Peppermint, for oil	65.8	64.2	Lb.	68.0	67.0	4,446	4,328
Spearmint, for oil	23.8	28.5	Lb.	86.0	93.0	2,053	2,658

¹ Yield per acre in pounds

Grain Storage

YEAR	Off Farm		On Farm ¹ Capacity
	Number of Facilities	Rated Capacity	
	1,000 Bushels		
1987 ²	343	172,000	³
1986 ²	345	158,000	296,029
1986 ⁴	353	135,000	276,972
1985 ⁴	361	131,000	—
1984 ⁴	374	129,500	—

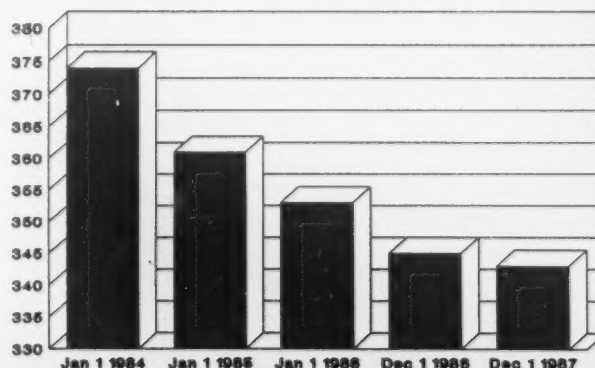
¹ Capacity data are survey indications

² December 1.

³ Not published in 1987.

⁴ January 1.

Michigan Grain Storage Facilities



Field Crop Acreage, Production and Value, Michigan

CROP	YEAR	Acreage		Production			Price Received ¹ Dollars per Unit	Value of Production 1,000 Dollars
		Planted	Harvested	Unit	Per Acre	Total		
		1,000				1,000		
CORN, all	1987	2,300	—	—	—	—	—	—
	1986	2,800	—	—	—	—	—	—
	1985	3,100	—	—	—	—	—	—
	1984	3,050	—	—	—	—	—	—
	1983	2,200	—	—	—	—	—	—
CORN, for grain	1987	—	1,950	Bu.	95	185,250	1.70	314,925
	1986	—	2,450	Bu.	105	257,250	1.43	367,868
	1985	—	2,730	Bu.	105	286,650	2.14	613,431
	1984	—	2,620	Bu.	84	220,080	2.56	563,405
	1983	—	1,800	Bu.	92	165,600	3.20	529,920
CORN, silage	1987	—	330	Ton	13.0	4,290	—	—
	1986	—	320	Ton	13.5	4,320	—	—
	1985	—	340	Ton	13.5	4,590	—	—
	1984	—	400	Ton	11.0	4,400	—	—
	1983	—	380	Ton	13.0	4,940	24.50	121,030
WINTER WHEAT	1987	450	400	Bu.	48	19,200	2.65	50,880
	1986	750	680	Bu.	45	30,600	2.38	72,828
	1985	770	750	Bu.	60	45,000	2.84	127,800
	1984	900	800	Bu.	57	45,600	3.18	145,008
	1983	830	730	Bu.	49	35,770	3.39	121,260
OATS	1987	350	300	Bu.	57	17,100	1.55	26,505
	1986	330	270	Bu.	63	17,010	1.19	20,242
	1985	420	390	Bu.	67	26,130	1.17	30,572
	1984	370	350	Bu.	62	21,700	1.84	39,928
	1983	450	300	Bu.	52	15,600	1.83	28,548
BARLEY	1987	55	50	Bu.	55	2,750	1.80	4,950
	1986	60	55	Bu.	59	3,245	1.60	5,192
	1985	39	38	Bu.	68	2,584	2.05	5,297
	1984	35	34	Bu.	60	2,040	2.50	5,100
	1983	35	33	Bu.	49	1,617	2.85	4,608
RYE	1987	115	20	Bu.	32	640	2.40	1,536
	1986	145	23	Bu.	31	713	1.40	998
	1985	135	21	Bu.	31	651	1.90	1,237
	1984	140	21	Bu.	28	588	2.25	1,323
	1983	135	20	Bu.	30	600	2.05	1,230
SOYBEANS	1987	1,100	1,090	Bu.	35.0	38,150	5.30	202,195
	1986	970	930	Bu.	31.0	28,830	4.67	134,636
	1985	1,100	1,080	Bu.	32.0	34,560	4.93	170,381
	1984	1,200	1,190	Bu.	27.0	32,130	5.79	186,033
	1983	1,050	1,040	Bu.	32.5	33,800	7.82	264,316
DRY BEANS ²	1987	470	440	Cwt.	1,260	5,544	13.40	74,290
	1986	480	340	Cwt.	800	2,720	23.60	64,192
	1985	440	410	Cwt.	1,320	5,412	15.00	81,180
	1984	400	390	Cwt.	1,100	4,290	19.60	84,084
	1983	360	350	Cwt.	1,300	4,550	23.20	105,560

Field Crop Acreage, Production and Value, Michigan (Continued)

CROP	YEAR	Acreage		Production			Price Received ¹	Value of Production
		Planted	Harvested	Unit	Per Acre	Total		
		1,000				1,000	Dollars per Unit	1,000 Dollars
SUGARBEETS	1987	144.0	142.0	Ton	20.5	2,911	³	³
	1986	137.0	110.0	Ton	20.8	2,288	30.00	68,640
	1985	124.0	118.0	Ton	19.7	2,325	29.60	68,820
	1984	110.0	108.0	Ton	19.6	2,117	34.40	72,825
	1983	106.0	104.0	Ton	19.0	1,976	36.20	71,531
POTATOES, all	1987	44.0	42.8	Cwt.	254	10,870	5.25	57,264
	1986	55.0	42.3	Cwt.	267	11,304	6.00	67,801
	1985	60.0	57.8	Cwt.	262	15,136	4.40	66,596
	1984	58.0	56.8	Cwt.	266	15,100	5.70	86,122
	1983	55.0	52.8	Cwt.	228	12,023	6.60	79,570
POTATOES, summer	1987	10.0	9.8	Cwt.	200	1,960	³	³
	1986	13.0	7.3	Cwt.	230	1,679	5.70	9,570
	1985	14.0	13.8	Cwt.	220	3,036	4.20	12,751
	1984	13.0	12.8	Cwt.	200	2,560	6.70	17,152
	1983	12.0	11.8	Cwt.	185	2,183	6.70	14,626
POTATOES, fall	1987	34	33.0	Cwt.	270	8,910	³	³
	1986	42	35.0	Cwt.	275	9,625	6.05	58,231
	1985	46	44.0	Cwt.	275	12,100	4.45	53,845
	1984	45	44.0	Cwt.	285	12,540	5.50	68,970
	1983	43	41.0	Cwt.	240	9,840	6.60	64,944
HAY, all	1987	—	1,500	Ton	2.92	4,384	57.00	249,888
	1986	—	1,770	Ton	3.24	5,743	52.00	298,636
	1985	—	1,750	Ton	3.26	5,705	53.00	302,365
	1984	—	1,750	Ton	3.02	5,285	61.50	325,028
	1983	—	1,400	Ton	3.19	4,470	57.50	257,025
HAY, alfalfa	1987	—	1,180	Ton	3.20	3,776	—	—
	1986	—	1,400	Ton	3.60	5,040	—	—
	1985	—	1,400	Ton	3.60	5,040	—	—
	1984	—	1,400	Ton	3.30	4,620	—	—
	1983	—	1,100	Ton	3.60	3,960	—	—
HAY, other	1987	—	320	Ton	1.90	608	—	—
	1986	—	370	Ton	1.90	703	—	—
	1985	—	350	Ton	1.90	665	—	—
	1984	—	350	Ton	1.90	665	—	—
	1983	—	300	Ton	1.70	510	—	—
SPEARMINT, for oil	1987	—	1.8	Lb.	29	52	12.50	650
	1986	—	2.8	Lb.	31	87	11.00	957
	1985	—	3.3	Lb.	28	92	12.10	1,113
	1984	—	3.8	Lb.	33	125	13.60	1,700
	1983	—	3.8	Lb.	31	118	13.00	1,534

¹ Marketing year.² Production per acre in pounds.³ Not available at publication time.

Corn

Corn continued to be the number one crop in Michigan in acreage and value of production. That was despite a 18 percent decline in planted acreage and depressed market prices. The value of the 1987 corn for grain crop was almost \$315 million. The State average yield, 95 bushels per acre, was 10 bushels below last year. Dry weather during pollination was the major cause of the relatively low yield. Branch, Huron and Lenawee were the top three

counties in corn for grain production. Michigan silage production was 4.29 million tons. The silage harvest progressed ahead of schedule and was virtually complete by mid-October.

Michigan ranked tenth among states in corn for grain production. U.S. corn for grain production was 7.06 billion bushels, down 14 percent from 1986. The rest of the crop was utilized in wet or dry milling, distilling, for seed or went into stocks.

Grain Corn Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	<i>1,000</i>	<i>Bushels</i>	<i>1,000 Bushels</i>
1987	1,950	95	185,250
1986	2,450	105	257,250
1985	2,730	105	286,650
1984	2,620	84	220,080
1983	1,800	92	165,600

Corn Silage Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	<i>1,000</i>	<i>Tons</i>	<i>1,000 Tons</i>
1987	330	13.0	4,290
1986	320	13.5	4,320
1985	340	13.5	4,590
1984	400	11.0	4,400
1983	380	13.0	4,940

Corn For Grain: Plant Population per Acre¹

YEAR	Michigan
1987	21,600
1986	20,700
1985	20,900
1984	20,600
1979	19,000
1974	16,900
1969	16,768
1964	13,358

¹ Based on stalk counts in plots selected for objective yield samples

Grain Corn Stocks by Quarter

CROP YEAR	December 1 ¹		March 1 ²		June 1		September 1 ³	
	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
	<i>1,000 Bushels</i>							
1987	148,000	98,829	105,000	96,373				
1986	210,000	92,565	140,000	85,069	88,000	70,935	62,000	67,182
1985	200,655	69,095	120,393	49,122	91,728	42,527	52,000	44,218
1984	127,646	43,716	88,032	24,932	55,020	18,397	15,406	10,389
1983	107,640	57,400	54,648	31,553	33,120	20,631	8,280	6,234
1982	199,362	58,646	143,658	48,040	117,272	47,658	64,500	41,090

¹ Prior to 1986 January 1

² Prior to 1986 April 1

³ Prior to 1986 October 1

Soybeans

Soybeans remained the third leading Michigan crop in value of production. The 1987 crop was valued at \$202 million. In 1987 farmers harvested 38.2 million bushels, 32 percent above a year earlier. Michigan ranked 12 among states in soybean output in 1987 with 2 percent of the U.S. production. Saginaw, Lenawee, Monroe and Clinton were the top counties in soybean production.

Soybeans are the most important U.S. oilseed. Soybean oil is used in cooking oil, margarine, paints, varnishes adhesives and many other products. Soybean meal is a primary protein source in livestock feed. One 60 pound bushel normally yields about 11 pounds of oil and 47 pounds of meal. Michigan exports its soybeans because there are no crushing facilities in the State.

Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	Bushels	1,000 Bushels
1987	1,090	35.0	38,150
1986	930	31.0	28,830
1985	1,080	32.0	34,560
1984	1,190	27.0	32,130
1983	1,040	32.5	33,800

Soybean Stocks by Quarter

CROP YEAR	December 1 ¹		March 1 ²		June 1		September 1	
	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
	1,000 Bushels							
1987	11,000	13,844	7,500	7,092				
1986	11,500	10,654	6,500	7,500	4,000	6,004	1,500	3,552
1985	18,317	10,613	10,022	6,589	6,221	5,217	2,200	3,931
1984	10,924	11,832	6,426	5,934	3,534	3,812	1,928	2,310
1983	9,126	10,634	5,408	6,095	2,366	3,372	676	1,098
1982	17,670	7,871	10,602	4,017	6,008	3,925	1,767	1,495

¹ Prior to 1986 January 1.

² Prior to 1986 April 1.

Sugarbeets

Michigan sugarbeet production was a record high 2.9 million tons during 1987, a 27 percent increase over 1986. An increase in harvested acreage combined with ideal growing conditions helped the State achieve this record level. Michigan ranked fifth among all states in production with 10 percent of the U.S. total. The 1986 sugarbeet crop was worth about \$68.6 million to Michigan farmers. Tuscola, Huron and Bay were the top three counties in beet production in 1987.

Sugarbeet acreage is contracted to processing plants, which refine the beets into sucrose. About half of the U.S. domestic sugar production is from sugarbeets and half from sugarcane.

Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	Tons	1,000 Tons
1987	142	20.5	2,911
1986	110	20.8	2,288
1985	118	19.7	2,325
1984	108	19.6	2,117
1983	104	19.0	1,976

Dry Beans

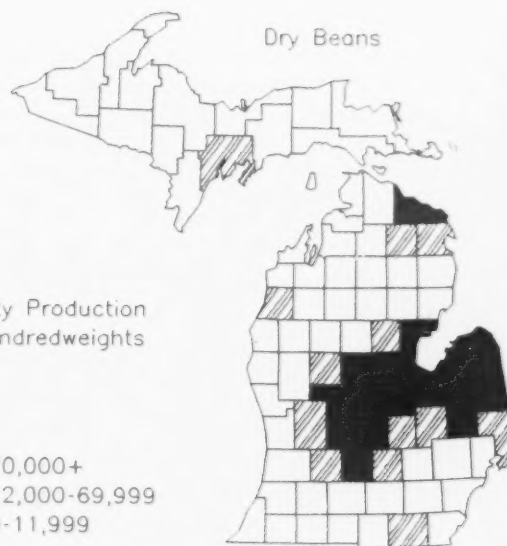
Michigan dry beans are available worldwide and continue to be an important and valuable commodity to Michigan agriculture. Dry bean production during 1987 totaled just over 5.5 million hundredweight. This represents 21 percent of the total U.S. output and ranks Michigan first in dry bean production. Also, 60 percent of all navy beans were Michigan grown. The 1987 crop is valued at \$74.3 million. Yields averaged 1,260 pounds per acre on 470,000 harvested acres.

The fertile soils of the Bay-Thumb area and Saginaw Valley are particularly well suited for bean production. Planting was completed ahead of normal and few problems were encountered through early summer. However, dry weather during the middle of the growing season put crop maturity behind. A late fall helped bring most beans to maturity, but still a larger than normal abandonment occurred due to immature beans.

Dry Bean Acreage, Yield, Production

KIND	Year	Harvested Acres	Yield per Acre	Production
		1,000	Pounds	1,000 Cwt.
Navy	1987	365	1,275	4,654
	1986	230	650	1,495
	1985	335	1,300	4,355
	1984	342	1,050	3,591
	1983	293	1,280	3,750
Other Than Navy ¹	1987	75	1,187	890
	1986	110	1,114	1,225
	1985	75	1,409	1,057
	1984	48	1,455	699
	1983	57	1,400	800
Total	1987	440	1,260	5,544
	1986	340	800	2,720
	1985	410	1,320	5,412
	1984	390	1,100	4,290
	1983	350	1,300	4,550

¹ Yield derived



Dry Bean Production by Kinds

KIND	1987	1986	1985	1984	1983
	1,000 Cwt.				
Navy Beans	4,654	1,495	4,355	3,591	3,750
Red Kidney	294	225	415	260	250
Cranberry	216	220	275	185	285
Pinto	126	120	60	30	28
Black Turtle	112	620	110	35	30
Small White	117	10	165	170	180
Others	25	30	32	19	27
Total	5,544	2,720	5,412	4,290	4,550

Dry Bean Stocks in Commercial Elevators

YEAR AND MONTH	Navy	Other Than Navy	Total
December 31			
1987	3,000	550	3,550
1986	1,200	300	1,500
1985	2,800	375	3,175
1984	2,550	275	2,825
1983	3,400	200	3,600
August 31			
1987	270	80	350
1986	520	80	600
1985	460	110	570
1984	620	80	700
1983	1,400	200	1,600

Hay

Hay continues to be Michigan's second leading crop in value of production. The 1987 crop was valued at almost \$250 million. Most hay is grown by dairy or beef cattle producers for consumption by their own livestock. About 15 percent of the crop is sold to other farmers, to hay brokers or through auctions. The State's hay acreage dropped by 15 percent from the 1986 season. This decrease can be attributed to root rot disease problems that were caused by the record rainfall during September and October of 1986. Low yields were also encountered because of the extended periods of hot, dry weather during the 1987 season.

Michigan dropped to 16 among all states in hay production in 1987. Production was almost 4.4 million tons, down almost a quarter from 1986. Alfalfa hay was 86 percent of the total hay crop.

Production by Kinds

CROP YEAR	Total	Alfalfa and Alfalfa Mixtures		All Other Kinds	
		Acres	Production	Acres	Production
	1,000 Tons	1,000	1,000 Tons	1,000	1,000 Tons
1987	4,384	1,180	3,776	320	608
1986	5,743	1,400	5,040	370	703
1985	5,705	1,400	5,040	350	665
1984	5,285	1,400	4,620	350	665
1983	4,470	1,100	3,960	300	510

Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
		Tons	1,000 Tons
1987	1,500	2.92	4,384
1986	1,770	3.24	5,743
1985	1,750	3.26	5,705
1984	1,750	3.02	5,285
1983	1,400	3.19	4,470

Hay Stocks on Farms

CROP YEAR	December 1 ¹	May 1
	1,000 Tons	
1987	2,236	570
1986	3,331	861
1985	3,195	742
1984	2,854	634
1983	2,503	526

¹ Prior to 1986 January 1.

Spearmint

Michigan's 1987 spearmint crop totaled 52,000 pounds of oil with a value of \$650,000. Record rains during September and October of 1986 caused considerable root damage and thus acreage abandonment. Additional damage resulted from extended periods of hot, dry weather during the 1987 growing season.

Most Michigan spearmint goes to processors which produce oil to be further refined for use in such products as gum, medicine, soap and toothpaste. Fresh mint leaves are used in restaurants for garnishes. The major producing area is central Lower Michigan. Michigan ranks sixth nationwide in spearmint production.

Acreage, Yield, Production

YEAR	Acres Harvested	Production - Oil	
		Per Acre	Total
		Pounds	1,000 Pounds
1987	1,800	29	52
1986	2,800	31	87
1985	3,300	28	92
1984	3,800	33	125
1983	3,800	31	118

Monthly Farm Marketings

Corn

MONTH	CROP YEAR				
	1986	1985	1984	1983	1982
	<i>Percent</i>				
October	8	7	8	8	9
November	14	20	24	28	18
December	17	24	8	13	13
January	12	17	9	12	10
February	10	4	6	9	9
March	10	3	12	10	11
April	6	4	9	6	6
May	5	6	7	4	6
June	5	4	6	5	5
July	4	4	5	2	4
August	3	3	3	2	5
September	6	4	3	1	4

Soybeans

MONTH	CROP YEAR				
	1986	1985	1984	1983	1982
	<i>Percent</i>				
September	2	3	1	4	1
October	18	22	16	34	25
November	20	16	20	17	22
December	12	18	5	8	11
January	15	11	7	6	11
February	6	5	4	6	6
March	7	7	10	7	5
April	5	6	12	6	5
May	5	4	8	8	2
June	4	4	8	2	2
July	3	2	7	1	6
August	3	2	2	1	4

Dry Beans

MONTH	CROP YEAR				
	1986	1985	1984	1983	1982
	<i>Percent</i>				
September	7	14	16	16	11
October	26	23	18	23	24
November	24	11	7	10	7
December	21	11	7	7	6
January	10	11	7	6	7
February	4	7	5	7	5
March	2	3	5	4	4
April	1	4	5	4	6
May	2	3	9	4	11
June	1	5	11	6	8
July	1	4	7	6	5
August	1	4	3	7	6

Wheat

MONTH	CROP YEAR				
	1986	1985	1984	1983	1982
	<i>Percent</i>				
July	47	52	44	36	25
August	21	16	26	31	26
September	4	9	6	5	6
October	5	6	4	3	2
November	3	6	2	2	4
December	3	3	4	6	5
January	5	2	5	6	10
February	2	2	2	4	7
March	2	1	2	3	7
April	2	1	2	2	3
May	3	1	1	1	3
June	3	1	2	1	2

Oats

MONTH	CROP YEAR				
	1986	1985	1984	1983	1982
	<i>Percent</i>				
July	7	12	6	6	4
August	37	51	35	37	34
September	4	5	8	10	5
October	3	3	4	7	2
November	2	6	3	5	3
December	8	2	9	5	7
January	10	2	7	7	8
February	10	2	7	8	7
March	7	3	7	5	8
April	4	7	5	4	11
May	4	3	6	4	6
June	4	4	3	2	5

Hay

MONTH	CROP YEAR				
	1986	1985	1984	1983	1982
	<i>Percent</i>				
June	13	14	17	14	12
July	14	14	12	10	9
August	6	6	8	6	8
September	4	5	4	4	5
October	4	5	4	5	4
November	4	5	7	6	8
December	12	11	9	12	9
January	11	10	8	9	9
February	11	10	6	6	9
March	10	9	10	10	10
April	8	8	9	11	9
May	3	3	6	7	8

Wheat, Oats, Barley and Rye

Michigan **wheat** farmers harvested a record low 400,000 acres during 1987. The 1986 fall planting was hampered by the extremely wet conditions that prevailed during the record rains of September and October. The wheat yield fell 7 percent from the previous year. Production was 37 percent below the 1986 crop and the lowest since 1978 when only 410,000 acres were harvested. Saginaw, Huron and Lenawee were the top three counties in wheat production.

Oats growers experienced lower yields in 1987, as the statewide yield declined 6 bushels to 57

bushels per acre. Total production on 300,000 harvested acres was 17.1 million bushels. **Barley** producers in the Great Lakes State produced 2.75 million bushels on 50,000 harvested acres for a yield of 55 bushels per acre. **Rye** producers harvested 32 bushels per acre.

Wheat grown in Michigan is virtually all marketed as a food grain. While large percentage of oats are also sold, the majority is used on farms as livestock feed. Some barley is also used as feed although most is sold for malting. Rye is planted primarily as a winter cover crop.

Wheat Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	Bushels	1,000 Bushels
1987	400	48	19,200
1986	680	45	30,600
1985	750	60	45,000
1984	800	57	45,600
1983	730	49	35,770

Oats Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	Bushels	1,000 Bushels
1987	300	57	17,100
1986	270	63	17,010
1985	390	67	26,130
1984	350	62	21,700
1983	300	52	15,600

Barley Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	Bushels	1,000 Bushels
1987	50	55	2,750
1986	55	59	3,245
1985	38	68	2,584
1984	34	60	2,040
1983	33	49	1,617

Rye Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	Bushels	1,000 Bushels
1987	20	32	640
1986	23	31	713
1985	21	31	651
1984	21	28	588
1983	20	30	600

Small Grain Stocks by Quarter¹

CROP	Crop Year	1,000 Bushels							
		September 1 ²		December 1 ³		March 1 ⁴		June 1	
		On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
WHEAT	1987	4,000	16,895	1,800	12,968	1,300	8,739		
	1986	3,267	20,668	2,300	15,557	1,600	13,044	900	10,084
	1985	5,400	21,232	3,600	15,513	2,250	10,425	1,800	8,431
	1984	6,384	18,001	3,648	13,839	1,824	8,175	1,368	6,027
	1983	6,081	19,164	4,650	15,680	3,219	9,664	1,789	5,729
OATS	1987	5	5	5	5	5	5		
	1986	5	5	5	5	5	5	2,100	1,038
	1985	17,768	6,262	13,065	4,593	5	5	2,874	2,130
	1984	14,756	4,123	10,850	2,468	5,859	1,928	2,821	1,404
	1983	11,700	2,863	7,488	1,837	4,056	1,559	2,184	1,067

¹ Includes interior mills, elevators and warehouses, cereal food processing plants, census merchant mills, terminal and C.C.C. bins

² Prior to 1986 October 1

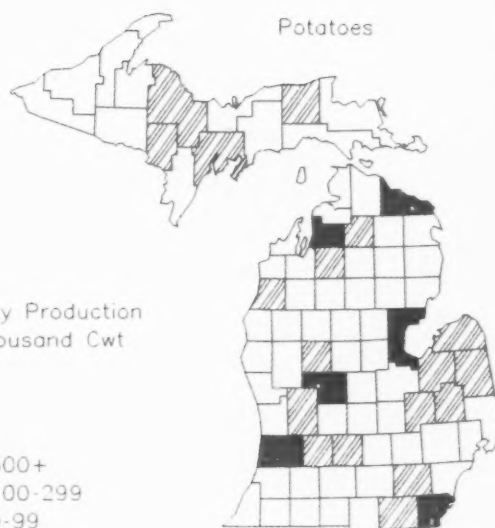
³ Prior to 1986 January 1

⁴ Prior to 1986 April 1

⁵ Effective 1986 only June 1 estimates will be made

Potatoes

Michigan's potato planted acreage dropped 20 percent from 1986. This is the lowest acreage since 1979 and is mostly due to the largest processing plant in the State closing down prior to the 1987 planting season. Even with this reduction Michigan remained tenth among states in potato production during 1987. The majority of Michigan potatoes are whites and are sold for table use or for potato chips. The remainder are virtually all russets used for french fries and other frozen products. Montcalm and Bay continued to be the leading counties in potato acreage.



Total Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	Cwt.	1,000 Cwt.
1987	42.8	254	10,870
1986	42.3	267	11,304
1985	57.8	262	15,136
1984	56.8	266	15,100
1983	52.8	228	12,023

Production and Disposition

SEASON	Year	Production	Total Used for Seed ¹	Used on Farm Where Grown		Sold
				For Seed, Feed and Household Use	Shrink & Loss	
				1,000 Cwt.		
SUMMER	1987	1,960	2	2	2	2
	1986	1,679	200	30	49	1,600
	1985	3,036	267	53	343	2,640
	1984	2,560	273	69	199	2,292
	1983	2,183	260	66	87	2,030
FALL	1987	8,910	2	2	2	2
	1986	9,625	646	215	1,040	8,370
	1985	12,100	819	250	1,250	10,600
	1984	12,540	920	250	1,190	11,100
	1983	9,840	900	260	830	8,750
TOTAL	1987	10,870	2	2	2	2
	1986	11,304	846	245	1,089	9,970
	1985	15,136	1,086	303	1,593	13,240
	1984	15,100	1,193	319	1,389	13,392
	1983	12,023	1,160	326	917	10,780

¹ Includes seed purchased and seed used on farms where grown

² Not available at publication time

Fall Potato Stocks

CROP YEAR	December 1	January 1	February 1	March 1	April 1	May 1
	1,000 Cwt.					
1987	4,800	3,800	2,800	2,100	1,200	500
1986	6,000	5,100	4,100	3,000	1,800	600
1985	8,000	6,600	5,300	4,100	2,600	1,500
1984	8,000	6,500	5,300	4,100	2,800	1,800
1983	6,600	5,400	4,400	3,300	2,100	1,000

FRUIT

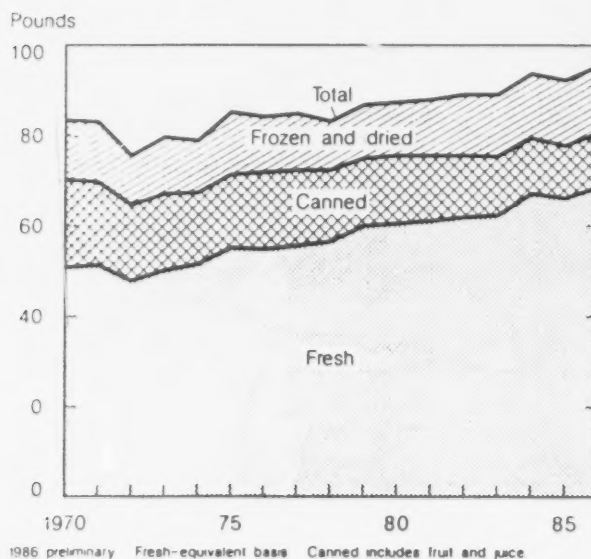
General Information

Michigan is one of the major fruit producing states in the Nation. This is largely due to the moderating influence that Lake Michigan has on the weather. The fruit industry is concentrated along the western coast of the Lower Peninsula where the "lake effect" is strongest. Cold air passing over the unfrozen lake in the winter is warmed while hot air passing over in the summer is cooled. The moderate climate that results is ideal for fruit production. The "lake effect" during spring also delays fruit tree bloom. This helps to lessen the possibility of freeze damage. Overall production of Michigan's seven major fruit crops during 1987 increased by 50 percent to just over 1.6 billion pounds. The 1987 growing season started with cool temperatures. While these cool temperatures prevailed through April, no major freezes occurred. Excellent pollinating conditions prevailed as warm and relatively dry weather set in

during May and June. Generally, growing conditions after June remained very good. The major exception to this was a July 20 wind storm of up to 80 miles per hour. This storm caused extensive damage to the partially unharvested tart cherry crop in the Leelanau and Grand Traverse county areas. Many older tart cherry trees were injured or destroyed, while other unharvested fruit was also damaged by the storm. The only other weather related concern was that the lack of moisture would limit fruit sizing. This concern was alleviated when timely rains arrived the last half of the growing season. All fruit crops had higher production except pears which showed a significant decrease. Overall, the value of Michigan's fruit production jumped 14 percent from 1986. This increase was mostly realized because of the higher volume of fruit produced and not because of higher fruit prices.



Per Capita Consumption of
Noncitrus Fruit, U.S.



Trees, Acres, Production and Value

FRUIT	YEAR	Trees of Bearing Age		Production		Price Received	Value of Production
		Number	Acres	Total	Utilized		
		1,000	1,000	Million Pounds		Dollars per Cwt.	1,000 Dollars
APPLES ¹	1987	4,800	50.5	1,050	1,050	8.60	90,300
	1986	4,450	47.3	700	700	9.30	65,075
	1985	4,200	46.2	1,100	1,070	7.50	79,800
	1984	3,900	44.8	770	770	8.00	61,960
	1983	3,700	44.6	750	750	7.70	57,540
TART CHERRIES	1987	3,600	34.0	265	225	5.50	12,270
	1986	3,500	33.3	170	165	19.80	32,751
	1985 ²	3,250	31.6	220	215	21.90	47,145
	1984 ²	3,000	30.0	210	195	25.40	49,555
	1983	2,750	28.1	87	87	49.10	42,721
SWEET CHERRIES	1987	780	9.1	64	64	28.80	18,436
	1986	740	8.6	40	40	28.80	11,520
	1985	700	8.2	62	62	25.00	15,500
	1984	670	8.0	66	62	21.15	13,120
	1983	640	7.7	36	36	23.00	8,272
PEACHES	1987	875	7.3	60	59	16.10	9,526
	1986	790	6.6	50	50	17.70	8,864
	1985	680	5.9	55	55	20.90	11,515
	1984	600	5.4	45	45	17.10	7,700
	1983	485	4.5	35	35	21.50	7,526
GRAPES ³	1987	5,300	11.3	60,000	60,000	260	15,609
	1986	5,400	11.5	32,000	32,000	247	7,916
	1985	5,500	11.8	51,000	51,000	215	10,952
	1984	5,650	12.0	49,000	49,000	166	8,131
	1983	5,750	12.2	60,000	60,000	194	11,662
PEARS	1987	150	1.55	8,000	8,000	236	1,884
	1986	155	1.60	11,000	11,000	233	2,558
	1985	160	1.70	8,000	8,000	242	1,933
	1984	165	1.70	11,000	11,000	219	2,404
	1983	175	1.80	8,000	8,000	237	1,899
PRUNES AND PLUMS	1987	345	3.3	16,000	14,000	144	2,018
	1986	335	3.2	11,000	11,000	243	2,668
	1985	315	3.0	11,000	11,000	299	3,285
	1984	300	2.9	12,000	12,000	276	3,310
	1983	280	2.8	12,000	12,000	197	2,366

¹ Commercial² Production defined as production available for harvest³ Vines of bearing ageFruit Total Acreage, Production and Value¹

YEAR	Acres of Bearing Age	Production		Value of Utilized Production	
		Total	Utilized	Average	Total
	1,000	Million Pounds		Dollars per Cwt.	1,000 Dollars
1987	117.05	1,607	1,562	9.61	150,043
1986	112.10	1,068	1,063	12.36	131,352
1985	108.40	1,577	1,542	11.03	170,130
1984	104.80	1,235	1,216	12.02	146,180
1983	101.70	1,068	1,068	12.36	131,986

¹ Includes apples, peaches, tart cherries, sweet cherries, pears, prunes-plums and grapes.

Apples

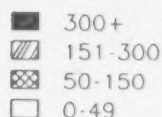
Michigan apple production at 1.05 billion pounds was 50 percent above the 1986 freeze damaged crop. Ideal pollinating weather helped most varieties have a heavy fruit set. This, combined with timely rains which helped fruit sizing plus 37 percent new bearing trees coming into production since 1982, were the main reasons for the large crop. Michigan, again moved into second place nationally with this large harvest. Total value of production was 39 percent above 1986. The majority of the State's crop is processed, with juice and cider being the main utilization.

Trees, Production and Value¹

YEAR	Trees of Bearing Age	Total Production	Value of Production
	1,000	Million Pounds	1,000 Dollars
1987	4,800	1,050	90,300
1986	4,450	700	65,075
1985	4,200	1,100	79,800
1984	3,900	770	61,960
1983	3,700	750	57,540

¹ Commercial

Thousands of Trees



For controlled atmosphere (CA) storage data see page 8.

Production, Utilization and Price

YEAR	Total Production	Fresh Market		Processing		Total Utilization	
		Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound
	Million Pounds	Million Pounds	Cents	Million Pounds	Cents	Million Pounds	Cents
1987	1,050	1	1	1	1	1,050	8.60
1986	700	225	15.20	475	6.45	700	9.30
1985	1,100	435	10.90	635	5.05	1,070	7.50
1984	770	290	11.60	480	5.90	770	8.00
1983	750	270	11.00	480	5.80	750	7.70

¹ Not available at publication time.

Processing Apple Utilization and Prices

YEAR	Canned		Frozen		Juice and Cider		Other	
	Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound
	Million Pounds	Cents	Million Pounds	Cents	Million Pounds	Cents	Million Pounds	Cents
1987	1	1	1	1	1	1	1	1
1986	140	6.90	110	8.40	210	5.20	15	5.50
1985	185	6.45	108	7.10	340	3.60	2	4.70
1984	138	6.90	85	8.30	253	4.60	4	5.50
1983	115	6.20	82	9.00	278	4.70	5	5.10

¹ Not available at publication time.

Tart Cherries

The 1987 tart cherry production in Michigan totaled 265 million pounds, up 56 percent from the freeze damaged 1986 crop. Growing conditions were mostly excellent in southwest and west central Michigan, except for a mid-season dry spell which caused small but acceptable size fruit. The northwest was less fortunate in that a major wind storm on July 20 destroyed a large amount of fruit and many older cherry trees. Fruit quality was excellent in all areas up until this wind storm. The crop's total value plunged 63 percent in 1987. This large decrease was due to extremely low tart cherry prices caused by over supply. This over supply concern was caused by significant increases in bearing trees for the last several years. This trend should stop in the near future as plantings from 1982 through 1986 have dropped substantially. Michigan continues to maintain its status as the Nation's leading producer of tart cherries with 74 percent of the total U.S. output.

Production by Region

REGION	1987 ¹	1986 ¹	1985 ¹	1984	1983
	<i>Million Pounds</i>				
Northwest	120	125	105	115	50
West Central	70	25	70	45	12
Southwest	73	19	44	48	24
Other	2	1	1	2	1
State Total	265	170	220	210	87

¹ Production defined as production available for harvest

Trees, Acres, Production and Value

YEAR	Trees of Bearing Age		Production		Price Received	Value of Production
	Number	Acres	Total	Utilized		
	<i>1,000</i>	<i>1,000</i>	<i>Million Pounds</i>		<i>Dollars per Cwt.</i>	<i>1,000 Dollars</i>
1987 ¹	3,600	34.0	265	225	5.50	12,270
1986 ¹	3,500	33.3	170	165	19.80	32,751
1985 ¹	3,250	31.6	220	215	21.90	47,145
1984 ¹	3,000	30.0	210	195	25.40	49,555
1983	2,750	28.1	87	87	49.10	42,721

¹ Production defined as production available for harvest

Production and Utilization

YEAR	Total Production	Utilized Production	Fresh Market	Utilization of Sales Processed		
				Canned	Frozen	Other
	Million Pounds					
1987 ¹	265	225	5	55	150	15
1986 ¹	170	165	3	30	124	8
1985 ¹	220	215	5	45	162	3
1984 ¹	210	195	5	54	130	6
1983	87	87	2	18	65	2

¹ Production defined as production available for harvest

Sweet Cherries

Production and Utilization

The 1987 Michigan sweet cherry production was up 60 percent from the previous year. Ideal growing conditions, combined with an increase in bearing acreage, caused this large output. Sweet cherry value was also up 60 percent from 1986. Michigan ranks fourth nationally in the production of sweet cherries. Bearing acreage increased 6 percent from last season.

YEAR	Total Production	Utilized Production	
		Fresh	Processed
Million Pounds			
1987	64	12	52
1986	40	8	32
1985	62	6	56
1984	66	6	56
1983	36	4	32

Grapes

The Michigan grape harvest increased 88 percent from the 1986 low level. Excellent growing conditions accounted for this significant jump in production. Number and weight of bunches were both up from last year, while berry count was down slightly from 1986. The Concord variety accounts

for almost 90 percent of Michigan's production. Most of the State's grape crop is processed into juice. A small but significant wine industry has developed in the state. Michigan was the Nation's fifth largest producer of grapes in 1987.

Vines, Acres, Production and Value

YEAR	Vines of Bearing Age		Production		Price Received	Value of Production
	Number	Acres	Total	Utilized		
	<i>1,000</i>	<i>1,000</i>	<i>Tons</i>		<i>Dollars per Ton</i>	<i>1,000 Dollars</i>
1987	5,300	11.3	60,000	60,000	260	15,609
1986	5,400	11.5	32,000	32,000	247	7,916
1985	5,500	11.8	51,000	51,000	215	10,952
1984	5,650	12.0	49,000	49,000	166	8,131
1983	5,750	12.2	60,000	60,000	194	11,662

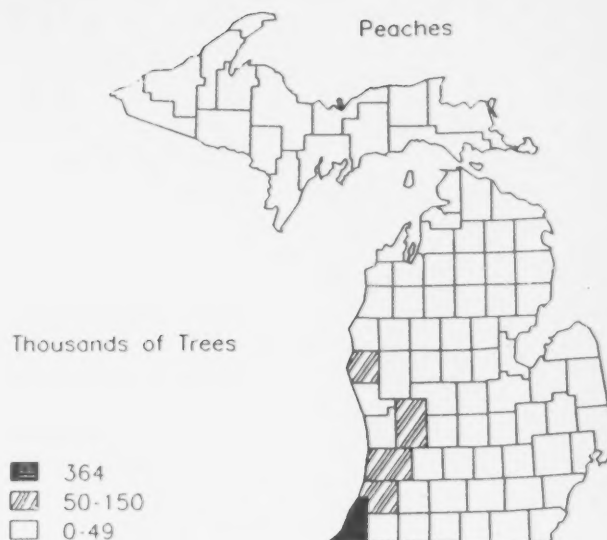
Production and Utilization

YEAR	Total Production	Utilized Production	Fresh Market Utilization	Processed Utilization	
				Juice	Wine
	Tons				
1987	60,000	60,000	1,500	56,500	2,000
1986	32,000	32,000	1,000	29,500	1,500
1985	51,000	51,000	1,500	47,500	2,000
1984	49,000	49,000	1,700	45,900	1,400
1983	60,000	60,000	1,800	55,000	3,200

Peaches

Michigan's 1987 peach crop increased 20 percent from a year ago. Excellent growing conditions, combined with an 11 percent jump in bearing trees accounted for this production increase.

The 7 percent increase in crop value can be attributed to excellent fruit size and quality, combined with the production increase. Michigan ranked sixth among peach producing states during 1987.



Prunes and Plums

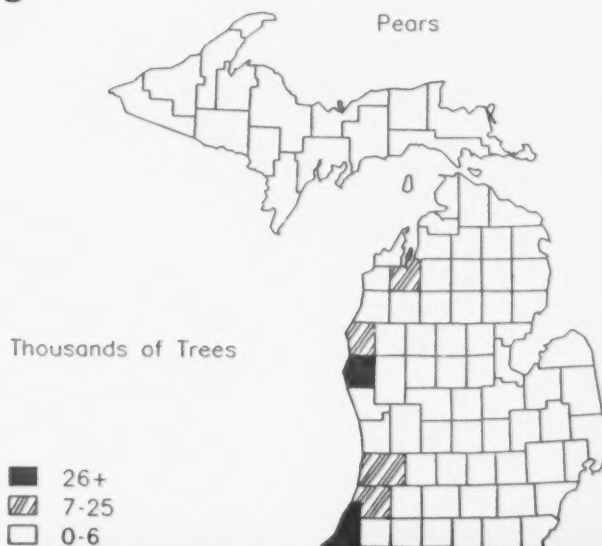
Prune-Plum production in Michigan during 1987 jumped 45 percent compared to a year ago. Fruit quality was excellent, while lack of rain during the growing season caused smaller fruit size. Price per ton plunged 41 percent while total crop value fell 24 percent. This price decline can be attributed to the extremely large California plum crop. This price decline also caused growers to abandon about 13 percent of the total production. Michigan was the Nation's third leading producer of prunes-plums in 1987. Bearing tree numbers have leveled off in recent years, but a decline of almost a third has occurred since 1979.

Production and Utilization

YEAR	Total Production	Utilized Production	
		Fresh	Processed
		<i>Tons</i>	
1987	16,000	7,500	6,500
1986	11,000	5,500	5,500
1985	11,000	4,400	6,600
1984	12,000	5,500	6,500
1983	12,000	5,800	6,200

Pears

The 1987 Michigan pear crop decreased 27 percent from the previous year. Price per ton was up 1 percent, while total value plunged 26 percent. Bearing tree numbers fell 3 percent from last year and have plunged 40 percent from 1979. Michigan remains the Nation's fifth largest pear producing state.



VEGETABLES

Michigan vegetable growers produced over 13 million hundredweight (cwt.) of fresh and processing vegetables, excluding strawberries, in 1987. This represents a 12 percent increase from 1986. Although warm spring growing conditions put many crops ahead of schedule, periods of hot, dry weather throughout the growing season hurt yields. In addition, wet weather at harvest time contributed to acreage abandonment.

Harvested acreage totaled 106,200, a 7 percent increase from the 1986 flood damaged season.

Value of production for all vegetables was \$113.3 million, a 3 percent increase from last year.

Most of the states vegetables are grown in the southern half of the Lower Peninsula. Michigan's muck soils are utilized for growing crops such as onions, carrots, celery and lettuce. There are ample markets for both processing and fresh market vegetables. Processing vegetables are utilized by both in and out of state processors. Michigan grown produce is shipped to major markets throughout the nation.

Total Vegetable Acreage, Production and Value

YEAR	Acres Planted	Acres Harvested	Production	Value
			1,000 Cwt.	1,000 Dollars
1987 ¹	114,300	106,200	13,030	113,345
1986 ¹	111,700	99,400	11,656	109,891
1985 ¹	113,800	107,800	14,437	124,976
1984 ¹	110,800	106,200	15,189	133,415
1983 ²	66,700	64,400	11,675	114,739

¹ Includes asparagus, carrots, cauliflower, celery, sweet corn, lettuce, onions, tomatoes, processing snap beans, processing green peas and cucumbers for pickles.

² All crops included in footnote one except asparagus and cucumbers for pickles.

Dual Purpose Vegetable Disposition and Value¹

CROP	Year	Fresh Market			Processing		
		Production	Price Received	Value of Production	Production	Price Received	Value of Production
		1,000 Cwt.	Dollars per Cwt.	1,000 Dollars	Tons	Dollars per Ton	1,000 Dollars
ASPARAGUS	1987	40	66.40	2,656	10,100	1,140.00	11,514
	1986	48	67.60	3,245	9,880	1,120.00	11,066
	1985	36	71.00	2,556	9,720	1,118.00	10,867
	1984	38	66.00	2,508	9,600	1,126.00	10,810
	1983 ²	—	—	—	—	—	—
CARROTS	1987	1,150	10.30	11,845	38,760	56.80	2,202
	1986	494	16.10	7,953	21,560	57.30	1,235
	1985	1,110	13.20	14,652	27,710	57.60	1,596
	1984	1,425	13.20	18,810	30,000	51.70	1,551
	1983	1,133	15.30	17,335	26,130	48.40	1,265
STRAWBERRIES	1987	92	53.20	4,894	2,000	666.00	1,332
	1986	78	48.10	3,752	3,300	792.00	2,614
	1985 ³	100	42.90	4,290	3,150	638.00	2,010
	1984	146	41.40	6,044	2,150	480.00	1,032
	1983	115	55.00	6,325	2,350	888.00	2,087

¹ Disposition data not publishable for cauliflower and celery.

² No estimates made.

³ Total production excludes 23,000 cwt. not harvested because of economic conditions.

Dual Purpose Vegetable Acreage, Production and Value

CROP	Year	Acres		Production		Price Received	Value of Production
		Planted	Harvested	Per Acre	Total		
				Cwt.	1,000 Cwt.	Dollars per Cwt.	1,000 Dollars
ASPARAGUS	1987	23,000 ¹	22,000	11	242	58.60	14,170
	1986	21,000 ¹	20,500	12	246	58.20	14,311
	1985	20,000 ¹	19,200	12	230	58.40	13,423
	1984	20,000 ¹	19,200	12	230	57.90	13,318
	1983 ²	—	—	—	—	—	—
CARROTS	1987	8,300	7,000	275	1,925	7.30	14,047
	1986	7,400	3,700	250	925	9.93	9,188
	1985	7,400	6,400	260	1,664	9.76	16,248
	1984	7,600	7,500	270	2,025	10.10	20,361
	1983	7,400	7,200	230	1,656	11.20	18,600
CAULIFLOWER	1987	1,600	1,200	60	72	28.80	2,074
	1986	1,800	700	55	39	39.50	1,539
	1985	1,700	1,500	65	98	33.90	3,324
	1984	1,600	1,500	65	98	35.10	3,441
	1983	1,600	1,400	55	77	35.30	2,717
CELERY	1987	3,400	3,100	370	1,147	11.50	13,142
	1986	3,300	2,600	400	1,040	14.00	14,521
	1985	3,400	3,200	410	1,312	10.60	13,844
	1984	4,000	3,900	400	1,560	9.87	15,403
	1983	3,600	3,500	370	1,295	12.70	16,504
STRAWBERRIES	1987	2,300	2,200	60	132	47.20	6,226
	1986	2,500	2,400	60	144	44.20	6,366
	1985	2,600	2,500	65	163 ³	38.70	6,300
	1984	2,800	2,700	70	189	37.40	7,076
	1983	2,800	2,700	60	162	51.90	8,412

¹ Bearing acres only.² No estimates made.³ Total production excludes 23,000 cwt. not harvested because of economic conditions.Processing Vegetable Acreage, Production and Value¹

CROP	Year	Acres		Production		Price Received	Value of Production
		Planted	Harvested	Per Acre	Total		
					Tons	Dollars per Ton	1,000 Dollars
SNAP BEANS	1987	20,000	19,500	2.20	42,900	149.00	6,392
	1986	18,000	17,600	2.40	42,240	143.00	6,040
	1985	19,000	18,700	2.60	48,620	158.00	7,682
	1984	18,400	17,500	2.80	49,000	136.00	6,664
	1983	15,100	14,800	2.80	41,440	144.00	5,967
CUCUMBERS FOR PICKLES	1987	24,000	23,000	6.70	154,100	135.00	20,804
	1986	25,000	24,000	5.80	139,200	146.00	20,323
	1985	25,000	24,000	5.60	134,400	158.00	21,235
	1984	22,000	21,300	5.50	117,150	147.00	17,221
	1983 ²	—	—	—	—	—	—
TOMATOES	1987	5,300	5,000	23.70	118,500	69.20	8,200
	1986	5,900	5,400	24.70	133,380	76.00	10,137
	1985	6,800	6,600	25.20	166,320	80.00	13,306
	1984	8,000	7,400	23.50	173,900	84.00	14,608
	1983	9,300	9,200	19.90	183,080	84.00	15,379

¹ Green peas and sweet corn not published to avoid disclosure of individual operations.² No estimates made.

Fresh Market Vegetable Acreage, Production and Value

CROP	Year	Acres		Production		Price Received	Value of Production ¹
		Planted	Harvested	Per Acre	Total		
				Cwt.	1,000 Cwt.	Dollars per Cwt.	1,000 Dollars
SWEET CORN	1987	13,300	11,500	62	713	10.20	7,273
	1986	13,300	11,700	60	702	10.50	7,371
	1985	13,300	12,000	65	780	12.40	9,672
	1984	13,300	12,300	65	800	10.80	8,640
	1983	13,300	12,800	70	896	11.10	9,946
LETTUCE	1987	1,400	1,000	215	215	20.20	4,343
	1986	1,300	1,200	200	240	16.70	4,008
	1985	1,300	1,200	250	300	17.50	5,250
	1984	1,200	1,100	235	259	15.70	4,066
	1983	1,600	1,200	190	228	15.00	3,420
ONIONS	1987	8,000	7,600	250	1,900	11.00	16,368
	1986	8,000	5,700	290	1,653	13.00	14,989
	1985	8,400	7,800	325	2,535	6.96	14,164
	1984	8,600	8,500	345	2,933	6.80	16,898
	1983	8,400	8,300	310	2,573	14.30	30,373
TOMATOES	1987	3,300	2,800	90	252	20.30	5,116
	1986	3,400	3,000	95	285	21.90	6,242
	1985	3,500	3,200	100	320	17.20	5,504
	1984	3,600	3,500	120	420	28.80	12,096
	1983	3,600	3,300	120	396	28.10	11,128

¹ For onions — Value of Sales

Mushrooms

Michigan's mushrooms are grown in specially built mushroom houses where humidity and temperatures are carefully controlled year-round. The available square footage can be filled three or more times during the year to account for the total area in production. Michigan is the Nation's third ranking mushroom producing state.

Area, Production and Value

YEAR	Total Area in Production ¹	Production	Yield per Square Foot	Price per Pound	Value of Production
	1,000 Sq. Ft.	1,000 Pounds	Pounds	Cents	1,000 Dollars
1986-87 ¹					
1985-86	4,060	20,171	4.97	83.1	16,758
1984-85	4,504	19,501	4.33	83.5	16,276
1983-84	4,709	17,506	3.72	93.5	16,365
1982-83	5,911	18,865	3.19	83.0	15,661

¹ Not published to avoid disclosure of individual operations

1987 Asparagus Survey

Results of the 1987 Asparagus Survey conducted last August have been compiled on data obtained from 800 commercial asparagus growers. For a grower to qualify as a commercial operation, he must have had at least one acre of asparagus planted.

The survey indicated Michigan asparagus acreage increased 31 percent since a comparable survey was conducted in 1977. However, the number of growers declined by 400 during this period. The largest increase was in west central Michigan which increased 7,665 acres and 42 growers. The southwest district reported a loss of 492 growers and 3,065 acres. Oceana County gained over 5,000 acres since 1977 and now has over half of the State's acreage. Van Buren County had the largest decline in both acreage and growers.

A publication detailing age of plantings, crown population per acre, hybrid acreage and marketing methods is available upon request from the Michigan Agricultural Statistics Service.

The area committed to growing asparagus in Michigan during 1987 was 25,000 acres. Bearing

acreage, acreage 2 years old or older, totaled 23,000 acres. This was 92 percent of the state's total planted acreage. The remaining 2,000 acres were split evenly between 1986 and 1987 plantings. Ninety-six percent; 22,000 acres; of the bearing age crop was harvested in 1987. The remaining 1,000 acres were not harvested because of economic reasons, such as labor shortages, low yields, etc.

Michigan's asparagus production totaled 24,200,000 pounds in 1987. The west central district accounted for 78 percent of the State's output while the southwest area produced 18 percent of the total. The rest of the state produced the remaining 4 percent.

Fifty-four percent of Michigan's 800 asparagus growers were located in the west central district. They had 68 percent of the State's asparagus acreage. Thirty-six percent of the growers who had 25 percent of the acreage, were located in southwest Michigan. The northwest had 5 percent of the growers and 6 percent of the acreage. The remaining areas of the State had 5 percent of the growers, but only 1 percent of the acreage.

**Growers and Acres
1987 vs 1977**

COUNTY AND DISTRICT	Number of Growers		Acres Planted	
	1987	1977	1987	1977
Grand Traverse	3	1	150	1
Leelanau	7	9	100	145
Manistee	22	6	950	175
Other	8	15	250	80
NORTHWEST	40	30	1,450	400
Isabella	3	1	100	1
Mason	72	23	2,200	345
Mecosta	10	1	450	1
Muskegon	26	28	700	395
Newaygo	12	14	300	290
Oceana	304	315	13,300	8,080
Other	3	8	50	325
WEST CENTRAL	430	388	17,100	9,435
Allegan	14	25	400	380
Berrien	63	193	900	1,910
Cass	10	39	600	955
Kalamazoo	6	17	100	90
Ottawa	26	18	600	265
St. Joseph	7	9	400	420
Van Buren	155	465	3,100	4,925
Other	9	16	100	320
SOUTHWEST	290	782	6,200	9,265
EAST	40	1	250	1
STATE	800	1,200	25,000	19,100

¹ Included in other

TOP FIVE ASPARAGUS PRODUCING COUNTIES



Growers, Acreage and Production, by County

COUNTY AND DISTRICT	Number of Growers	Planted Acres	Harvested Acres	Production	
				Per Acre	Total
				<i>Pounds</i>	
Grand Traverse	3	150	130	920	120,000
Leelanau	7	100	60	1,000	60,000
Manistee	22	950	650	660	430,000
Other	8	250	200	750	150,000
NORTHWEST	40	1,450	1,040	730	760,000
Isabella	3	100	100	1,100	110,000
Mason	72	2,200	1,900	1,200	2,280,000
Mecosta	10	450	400	750	300,000
Muskegon	26	700	650	1,000	650,000
Newaygo	12	300	250	1,080	270,000
Oceana	304	13,300	11,850	1,280	15,200,000
Other	3	50	50	800	40,000
WEST CENTRAL	430	17,100	15,200	1,240	18,850,000
Allegan	14	400	380	1,000	380,000
Berrien	63	900	800	1,000	800,000
Cass	10	600	520	690	360,000
Kalamazoo	6	100	70	1,290	90,000
Ottawa	26	600	550	750	410,000
St. Joseph	7	400	380	1,000	380,000
Van Buren	155	3,100	2,800	700	1,960,000
Other	9	100	50	800	40,000
SOUTHWEST	290	6,200	5,550	800	4,420,000
EAST	40	250	210	810	170,000
STATE	800	25,000	22,000	1,100	24,200,000

Growers, Acreage and Production, by Size Group

ACREAGE SIZE GROUPS	Number of Growers	Planted Acres	Harvested Acres	Production	
				Per Acre	Total
				<i>Pounds</i>	
1-4	165	500	450	820	370,000
5-9	135	900	800	875	700,000
10-19	175	2,400	2,100	1,010	2,120,000
20-39	145	4,000	3,450	1,025	3,540,000
40-59	75	3,700	3,350	1,150	3,850,000
60-79	35	2,300	1,950	1,075	2,100,000
80-99	20	1,700	1,500	1,175	1,760,000
100 or More	50	9,500	8,400	1,160	9,760,000
TOTAL	800	25,000	22,000	1,100	24,200,000

FLORICULTURE

Michigan placed 5th nationally during 1987 in wholesale value of floriculture crops. Reports from 435 commercial growers in Michigan indicated total wholesale sales of all surveyed floriculture crops was \$92 million for 1987. A commercial grower is defined as one who had \$10,000 or more in gross sales of cut flowers, foliage and flowering plants, bedding plants or cultivated florist greens. Michigan continued to lead the nation in production of potted

geraniums (seed), and ranked second in production of Easter lilies and flats of flowering and vegetable bedding plants.

Bedding plants (flats) were the State's leading revenue producer in 1987, accounting for 42 percent of Michigan's total value of wholesale sales. Michigan also had 23 million square feet of greenhouse cover in 1987; this includes both permanent glass and film plastic greenhouses.

Area of Production and Average Value

PLANT	Production Area			Average Value of Production Area ¹		
	1987	1986	1985	1987	1986	1985
	1,000 Sq. Ft.			Dollars per Sq. Ft.		
FOLIAGE PLANTS²:						
All	325	390	470	4.89	5.79	4.85
BEDDING PLANTS²:						
Flowering & Foliar	13,100	11,480	9,750	2.43	2.72	2.82
Vegetable	2,010	1,965	1,995	2.46	2.53	2.64
Geraniums	420	485	435	3.97	3.79	4.57
POTTED PLANTS²:						
Chrysanthemums	1,105	1,080	1,195	4.09	3.78	3.39
Azaleas	185	135	—	6.43	6.28	—
Poinsettias	3,950	3,490	3,525	2.40	2.28	1.99
African Violets	82	95	125	7.62	7.64	6.38
Easter Lilies	545	530	600	4.95	5.21	4.43
Other Lilies	37	23	21	6.16	4.61	5.52
Hardy/Garden Mums	800	605	580	1.37	1.35	1.64
Geraniums (Cuttings)	1,825	1,790	1,400	2.84	2.79	3.06
Geraniums (Seed)	1,440	1,445	1,345	4.12	3.76	3.36
Other Flowering Plants	520	600	465	3.71	3.21	4.72
Other Flowering & Foliar						
Type Bedding Plants	845	560	420	2.77	3.00	2.86
Vegetable Type Bedding Plants	140	125	60	2.04	2.91	4.25
CUT FLOWERS:						
Chrysanthemums,						
Standard	45	60	55	2.18	1.90	2.02
Pompon	230	255	165	1.67	1.62	3.38
Roses,						
Hybrid Tea	470	470	420	6.04	6.68	6.12
Sweetheart	135	135	185	5.41	7.33	6.57
Other Cut Flowers	3,290	3,465	390	.29	.58	.87
	Acres			Dollars per Acre		
Gladioli	650	695	720	4,031	3,407	3,360

¹ Based on Value of Sales at Wholesale, except foliage which is based on Net Value of Sales.

² 1987 & 1986 data is not comparable to other years due to changing time held from 6 weeks to 4 weeks for "plants purchased from others."

Bedding Plant and Flower Production and Sales

CROP	YEAR	Producers with Sales Over \$10,000	Sales				Percent of Sales at Wholesale	Wholesale Priced ¹		Value of Sales at Wholesale ²
			Unit	Quantity		Total		Less Than 5 Inch	5 Inch or More	
				Less Than 5 Inch	5 Inch or More					
		Number		1,000			Percent	Dollars		1,000 Dollars
BEDDING PLANTS ³ :										
Flowering & Foliar	1987	341	Flat			6,700	85	4.75		31,825
	1986	343	Flat			6,365	86	4.90		31,189
	1985	299	Flat			5,660	85	4.85		27,451
Vegetable	1987	318	Flat			1,065	78	4.65		4,952
	1986	315	Flat			1,035	80	4.80		4,968
	1985	280	Flat			1,120	80	4.70		5,264
Geraniums	1987	83	Flat			235	82	7.10		1,669
	1986	99	Flat			270	79	6.80		1,836
	1985	79	Flat			280	88	7.10		1,988
POTTED PLANTS ³ :										
Chrysanthemums	1987	88	Pot	260	1,040	1,300	94	1.20	4.05	4,524
	1986	87	Pot	375	965	1,340	93	3.05		4,087
	1985	77	Pot	345	1,005	1,350	93	3.00		4,050
Azaleas	1987	76	Pot	20	190	210	88	2.90	5.95	1,189
	1986	55	Pot		150	150	89	5.65		848
Poinsettias	1987	169	Pot	510	2,440	2,950	87	1.85	3.50	9,484
	1986	172	Pot	405	2,045	2,450	89	3.25		7,963
	1985	163	Pot	470	2,075	2,545	87	2.75		6,999
African Violets	1987	30	Pot	595		595	95	1.05		625
	1986	26	Pot	660		660	94	1.10		726
	1985	25	Pot	840		840	95	.95		798
Easter Lilies	1987	102	Pot		830	830	94		3.25	2,698
	1986	111	Pot		905	905	93	3.05		2,760
	1985	95	Pot	85	800	885	94	3.00		2,655
Other Lilies	1987	36	Pot		65	65	76		3.50	228
	1986	27	Pot		40	40	67	2.65		106
	1985	19	Pot		40	40	88	2.90		116
Hardy/Garden Mums	1987	129	Pot	510	400	910	84	.65	1.90	1,092
	1986	129	Pot	460	280	740	77	1.10		814
	1985	93	Pot	365	315	680	82	1.40		952
Geraniums (Cuttings)	1987	262	Pot	4,030	280	4,310	60	1.10	2.65	5,175
	1986	269	Pot	4,120	420	4,540	67	1.10		4,994
	1985	216	Pot	3,530	555	4,085	64	1.05		4,289
Geraniums (Seed)	1987	171	Pot	9,890		9,890	94	.60		5,934
	1986	157	Pot	8,350		8,350	94	.65		5,428
	1985	131	Pot	6,950		6,950	92	.65		4,518
Other Flowering Plants ⁴	1987	83	Pot	300	575	875	84	1.55		1,931
	1986	90	Pot	535	405	940	89	2.05		1,927
	1985	5	Pot	385	510	890	89	2.46		2,193
Other Flowering & Foliar Type Bedding Plants	1987	141	Pot	2,545	400	2,945	88	.70	1.40	2,342
	1986	128	Pot	1,450	525	1,975	79	.85		1,679
	1985	100	Pot	1,335	265	1,600	83	.75		1,200
Vegetable Type Bedding Plants	1987	46	Pot	425	35	460	74	.55	1.45	285
	1986	61	Pot	410	45	455	68	.80		364
	1985	52	Pot	225	30	255	51	1.00		255
HANGING BASKETS ³ :										
Flowering	1987	342	Basket			1,335	83	5.10		6,809
	1986	280	Basket			1,000	73	5.35		5,350
	1985	186	Basket			700	90	5.40		3,780
Foliage	1987	154	Basket			380	91	4.10		1,558
	1986	121	Basket			455	93	4.05		1,843
	1985	101	Basket			405	95	4.20		1,701

Bedding Plant and Flower Production and Sales (Continued)

CROP	YEAR	Producers with Sales Over \$10,000	Sales		Percent of Sales at Wholesale	Wholesale Price	Value of Sales at Wholesale ²
			Unit	Quantity			
		Number		1,000	Percent	Dollars	1,000 Dollars
CUT FLOWERS:							
Chrysanthemums, Standard	1987	26	Bloom	115	43	.85	98
	1986	26	Bloom	190	50	.60	114
	1985	31	Bloom	170	36	.65	111
Pompon	1987	42	Bunch	145	56	2.65	384
	1986	46	Bunch	150	49	2.75	413
	1985	47	Bunch	210	43	2.65	557
Roses, Hybrid Tea	1987	10	Bloom	4,365	98	.65	2,837
	1986	13	Bloom	5,235	98	.60	3,141
	1985	10	Bloom	4,670	99	.55	2,569
Sweetheart	1987	4	Bloom	1,625	100	.45	731
	1986	7	Bloom	2,200	99	.45	990
	1985	7	Bloom	2,700	99	.45	1,215
Gladioli	1987	20	Spike	26,200	100	.10	2,620
	1986	21	Spike	23,675	100	.10	2,368
	1985	15	Spike	20,160	100	.12	2,419
Other Cut Flowers	1987	53	—	—	91	—	955
	1986	61	—	—	80	—	2,020
	1985	5	—	—	61	—	428

¹ Estimates for less than 5 inch and 5 inch or more began with 1987 crop. 1986 and prior data are the average price of all pots.² Equivalent wholesale value of all sales.³ 1985 data is not comparable to other years due to changing time held from 6 weeks to 4 weeks for "plants purchased from others."⁴ 1985 data includes finished azaleas and hydrangeas. 1986 data includes hydrangeas.⁵ Not available.Foliage Plant Production and Sales¹

YEAR	Producers with Sales Over \$10,000	Square Feet in Production	Net Value of Sales ²	Sales at Wholesale
	Number	1,000 Sq. Ft.	1,000 Dollars	Percent
1987	65	325	1,590	73
1986	66	390	2,260	73
1985	69	470	2,280	81

¹ 1987 & 1986 data is not comparable to other years due to changing time held from 6 weeks to 4 weeks for "plants purchased from others."² Gross value of sales less cost of plant material purchased from others.

Growers and Growing Area

YEAR	Total Number of Growers	Glass Greenhouses	Fiberglass and other Rigid Greenhouses	Film Plastic (Single/Double) Greenhouses	Total Greenhouse Cover ³
1987	435	3,000 ¹	5,000	15,000	23,000
1986	445	—	8,000 ²	14,000	22,000
1985	—	—	—	—	19,000

¹ Estimates begun for 1987.² Includes glass, fiberglass and other rigid greenhouses.³ All greenhouse space only for 1985.

LIVESTOCK AND POULTRY

General Information

Livestock and associated products accounted for just under 50 percent of the total cash receipts from farming in Michigan during 1987. Total livestock cash receipts, nearly \$1.26 billion, were up 2 percent from 1986. Higher receipts from meat animal (cattle, hogs and sheep) marketings more than offset lower receipts from milk, poultry and egg marketings. Receipts from 1987 marketings of meat animals, nearly \$516 million, were up 17 percent from the previous year. Higher average market prices for cattle, calves, hogs and sheep and increased hog marketings were the leading contributors to the higher receipts. Cattle, calf and sheep marketings showed little change from the previous year. Livestock producers also were aided by relatively low feed costs during most of 1987.

Hog cash receipts rose 9 percent during 1987. Annual average market hog prices reached \$50 per hundredweight (cwt.) for the first time since 1982. Monthly market prices for barrows and gilts peaked at \$60 per cwt. in July before dropping sharply late in the year. The December hog inventory was up 8 percent and another increase in the breeding herd

indicated potential for more expansion during 1988. The rate of expansion in hog numbers was slower than anticipated, contributing to the favorable market prices that prevailed for most of 1987. Cattle inventories declined again but market prices and cash receipts showed significant increases. Cattle and calf marketings (liveweight basis) were up 5 percent due to higher average slaughter liveweights for cattle and calves. Cattle and calf market prices reached their highest levels since 1980. Sheep and lamb marketings showed little change from 1986 but cash receipts jumped 16 percent due to record high market lamb prices.

Egg production increased during 1987 but sharply lower market egg prices led to a 15 percent drop in receipts. Turkey cash receipts were down 20 percent as increased production failed to offset a large decline in market prices. Honey production were estimated at 5.4 million pounds during 1987, up 20 percent from a year earlier. Average yield per colony and value of production also increased. The raising of Angora goats for mohair production has grown in importance as a livestock enterprise in Michigan.

Cattle and Calves

The January 1, 1988 cattle and calf inventory of 1,225,000 head was down 8 percent from a year earlier and was the lowest inventory in recent history. Cattle numbers have now declined for 5 consecutive years. Milk cow numbers fell 3 percent and the milk replacement heifer inventory was down 14 percent. The Dairy Termination Program, which ended on August 31, 1987, was the prime cause for the decline in dairy cows and heifers. The recent downturn in beef cow numbers continued during 1987. Beef cow replacement heifer numbers were down 22 percent.

Cattle on full feed for slaughter market, at 200,000 head on January 1, were unchanged from a year earlier. Cash receipts from cattle and calf marketings jumped 24 percent from a year earlier. Total liveweight marketed increased slightly, but sharply higher market prices contributed the most to the higher receipts. Commercial cattle slaughter fell 8 percent while calf slaughter was down 19 percent from 1986.

Balance Sheet

YEAR	On Hand January 1, All Cattle and Calves	Calf Crop	Inship- ments	Marketings ¹		Farm Slaughter ² Cattle and Calves	Deaths		On Hand Following January 1, All Cattle and Calves
				Cattle	Calves		Cattle	Calves	
				1,000 Head					
1987	1,325	460	60	435	87	5	23	70	1,225
1986	1,410	500	60	430	104	6	28	77	1,325
1985	1,450	540	60	455	74	6	25	80	1,410
1984	1,475	525	100	480	56	9	25	80	1,450
1983	1,500	525	130	480	68	10	27	95	1,475

¹ Includes custom slaughter and state outshipments, but excludes inter-farm sales within Michigan.

² Excludes custom slaughter for farmers at commercial establishments.

Number on Farms by Class and Number of Operations, January 1

CLASS	1988	1987	1986	1985	1984
	<i>1,000 Head</i>				
Cows and Heifers that have Calved . . .	488	520	550	550	560
Beef Cows	130	150	153	160	158
Milk Cows	358	370	397	390	402
Heifers, 500 pounds and over	233	278	260	274	282
For Beef Cow replacement	29	37	23	32	36
For Milk Cow replacement	161	187	192	195	180
Other Heifers	43	54	45	47	66
Steers, 500 pounds and over	203	210	215	210	230
Bulls, 500 pounds and over	16	17	20	22	23
Calves, less than 500 pounds	285	300	365	394	380
All Cattle and Calves	1,225	1,325	1,410	1,450	1,475
Number of Cattle Operations ¹	26,000	28,000	30,000	31,000	32,000

¹ Any place having one or more head on hand at any time during the year.

Commercial Slaughter

YEAR OR MONTH	Cattle			Calves		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	<i>1,000</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000</i>	<i>Pounds</i>	<i>1,000 Pounds</i>
1987 January	34.1	1,279	43,569	8.3	332	2,761
February	29.7	1,254	37,245	7.4	317	2,350
March	31.3	1,174	36,765	7.1	313	2,207
April	32.6	1,264	41,216	6.6	327	2,153
May	30.8	1,242	38,307	6.0	332	2,008
June	34.4	1,273	43,826	6.2	317	1,974
July	32.8	1,251	41,090	6.7	324	2,177
August	30.5	1,262	38,416	5.9	313	1,863
September	32.6	1,273	41,507	7.7	332	2,557
October	36.1	1,266	45,698	6.8	330	2,243
November	33.0	1,266	41,795	6.0	331	1,990
December	33.3	1,266	42,202	6.6	340	2,248
1987 ¹	391	1,256	491,635	81	326	26,532
1986	423	1,236	523,022	100	315	31,553
1985	473	1,098	519,738	105	274	28,666
1984	595	1,094	650,304	81	243	19,631
1983	537	1,145	614,551	75	235	17,513

¹ Months may not add exactly to annual totals because of rounding.

Cattle and Calves Production and Income

YEAR	Pro- duction ¹	Market- ings ²	Average Price per Cwt.		Value of Pro- duction	Cash Receipts ³	Value of Home Con- sumption	Gross Income
			Cattle	Calves				
	1,000 Pounds		Dollars			1,000 Dollars		
1987	462,130	556,195	52.50	71.90	247,245	297,368	10,893	308,261
1986	466,085	529,460	44.50	55.00	208,730	238,955	11,229	250,184
1985	463,485	493,950	46.30	53.30	215,373	230,022	12,890	242,912
1984	454,130	513,440	48.20	54.10	219,996	248,224	13,002	261,226
1983	461,000	532,680	47.20	57.00	218,661	252,844	16,660	269,504

¹ Adjustments made for changes in inventory and for shipments.² Excludes custom slaughter for use on farms where produced and interfarm sales within the state.³ Receipts from marketings and sale of farm slaughter.

Cattle on Feed for Slaughter

YEAR	January 1
	1,000 Head
1988	200
1987	200
1986	175
1985	165
1984	175

Hogs

The hog and pig inventory on Michigan farms as of December 1, 1987 totaled 1,350,000 head, up 8 percent from a year earlier. This inventory was second only to the record inventory of 1.4 million established in 1944. Michigan placed 11 nationally in hog numbers. The December 1 breeding hog inventory of 185,000 head was up 10,000 from a year earlier. This indicated potential for further expansion of hog numbers during 1988. The December market hog population was up 8 percent. Sows farrowing totaled 255,000 head during 1987, up 20,000 from

a year earlier. Average litter size was down slightly from the previous year.

Annual hog marketings exceeded 1.85 million head, up 6 percent from 1986. Market hog prices averaged \$50.00 per cwt., up nearly \$2 from the previous year. Hog prices declined sharply late in 1987 in response to increased hog population. Cash receipts, at nearly \$213 million, were up 9 percent. Commercial hog slaughter in Michigan dropped slightly to 4.5 million head during 1987. Michigan retained fifth place nationally in hog slaughter.

Number on Farms by Class and Number of Operations, December 1

CLASS	1987	1986	1985	1984	1983
	1,000 Head				
Breeding Hogs	185	175	145	155	170
Market Hogs	1,165	1,075	1,045	1,155	1,080
All Hogs	1,350	1,250	1,190	1,310	1,250
Number of Hog Operations ¹	7,000	7,500	8,000	8,500	9,000

¹ Any place having one or more head on hand at any time during the year.

Pig Crop

YEAR	December-May			June-November		
	Sows Farrowed	Pigs per Litter	Pig Crop	Sows Farrowed	Pigs per Litter	Pig Crop
	1,000 Head	Head	1,000 Head	Head	1,000 Head	
1987	115	7.9	909	140	7.8	1,093
1986	105	8.1	851	130	7.9	1,027
1985	90	7.8	702	124	8.0	992
1984	110	7.5	825	150	7.7	1,155
1983	100	7.5	750	148	7.6	1,125

Balance Sheet

YEAR	Beginning Inventory	Pig Crop		Inshipments	Marketings ¹	Farm Slaughter ²	Deaths	Number on Hand December 1
		Dec.-May	June-Nov.					
		1,000 Head						
1987	1,250	909	1,092	49	1,853	7	90	1,350
1986	1,190	851	1,027	32	1,755	10	85	1,250
1985	1,310	702	992	46	1,745	10	105	1,190
1984	1,250	825	1,155	85	1,860	10	135	1,310
1983	900	750	1,125	75	1,490	10	100	1,250

¹ Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.² Excludes custom slaughter for farmers at commercial establishments.

Hogs and Pigs Production and Income

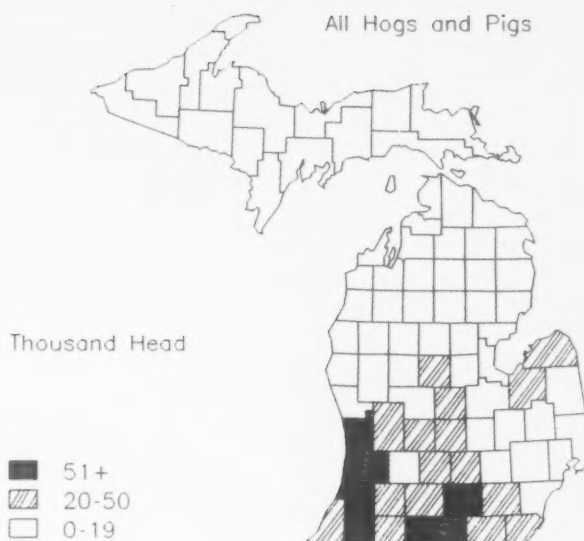
YEAR	Production ¹	Marketings ²	Average Price per Cwt.	Value of Production	Cash Receipts ³	Value of Home Consumption	Gross Income
	1,000 Pounds		Dollars		1,000 Dollars		
1987	434,290	422,795	50.00	217,557	212,560	2,100	214,660
1986	417,195	402,115	48.30	202,132	195,293	2,318	197,611
1985	386,535	403,985	43.90	169,979	178,243	2,107	180,350
1984	444,608	432,840	46.80	207,746	203,601	2,808	206,409
1983	386,003	345,510	47.00	181,077	163,245	2,820	166,065

¹ Adjustments made for changes in inventory and for inshipments.² Excludes custom slaughter for use on farms where produced and interfarm sales within the state.³ Receipts from marketings and sale of farm slaughter. Includes allowance for higher average price of outshipments of feeder pigs.

Commercial Hog Slaughter

YEAR OR MONTH	Head	Liveweight	
		Per Head	Total
	1,000	Pounds	1,000 Pounds
1987 January	379.9	239	90,651
February	333.8	237	79,165
March	364.5	237	86,381
April	367.9	237	87,061
May	346.5	237	82,131
June	317.6	237	75,113
July	337.9	236	79,657
August	352.9	233	82,330
September	403.9	236	95,251
October	455.2	236	107,605
November	404.2	236	95,545
December	462.4	235	108,829
1987 ¹	4,527	236	1,069,718
1986	4,625	237	1,095,979
1985	5,061	239	1,209,987
1984	5,323	241	1,280,809
1983	5,285	241	1,274,962

¹ Months may not add exactly to annual totals because of rounding.



Sheep and Lambs

The January 1, 1988 sheep and lamb inventory of 105,000 head was down 1,000 from the previous year and once again established a record low sheep inventory. Sheep numbers have declined for three straight years. Sheep numbers have not shown a year to year increase since 1982. The stock sheep inventory, 84,000 head, was down 1,000 from a year earlier. Sheep and lambs on feed totaled 21,000 head, unchanged from a year ago.

The 1987 lamb crop of 90,000 head was unchanged from a year earlier. A slight increase in the lambing rate offset a drop in the breeding ewe

inventory. Sheep and lamb marketings were virtually unchanged from a year ago. Cash receipts, \$5.8 million, were up 17 percent due to higher market prices. Lamb prices averaged a record \$75.00 per hundredweight (cwt.) and prices for mature sheep (mostly cull ewes) increased to an average of \$25.00 per cwt. Wool production during 1987 was a record low 722,000 pounds, down 5 percent from the previous year. The value of the 1987 wool crop was up 13 percent due to sharply higher wool prices. Commercial sheep and lamb slaughter exceeded 217,000 head, up 5 percent from 1986.

Number on Farms by Class and Number of Operations, January 1

CLASS	1988	1987	1986	1985	1984
STOCK SHEEP:	1,000 Head				
Ewe Lambs	11	10	11	12	13
Ram and Wether Lambs	3	4	4	3	4
Ewes, 1 year plus	67	68	71	73	72
Rams and Wethers, 1 year plus	3	3	3	4	3
Sheep and Lambs on Feed	21	21	19	18	18
All Sheep and Lambs	105	106	108	110	110
Number of Sheep Operations ¹	2,500	2,500	2,700	2,900	2,900

¹ Any place having one or more head on hand at any time during the year.

Balance Sheet

YEAR	On Hand January 1, All Sheep and Lambs	Lamb Crop	Inship- ments	Marketings ¹		Farm Slaughter ²	Deaths		On Hand Following January 1, All Sheep and Lambs
				Sheep	Lambs		Sheep	Lambs	
	1,000 Head								
1987 . . .	106	90	2	11	65	1	4	12	105
1986 . . .	108	90	1	14	63	1	4	11	106
1985 . . .	110	90	1	14	65	1	4	9	108
1984 . . .	110	100	0	10	71	2	5	12	110
1983 . . .	110	90	0	15	59	1	5	10	110

¹ Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.² Excludes custom slaughter for farmers at commercial establishments.

Sheep and Lambs Production and Income

YEAR	Pro- duction ¹	Market- ings ²	Average Price Per Cwt.		Value of Pro- duction	Cash Receipts ³	Value of Home Con- sumption	Gross Income
			Sheep	Lambs				
	<i>1,000 Pounds</i>		<i>Dollars</i>			<i>1,000 Dollars</i>		
1987	8,755	8,740	25.00	75.00	5,894	5,813	248	6,061
1986	8,690	8,680	21.50	67.50	5,157	4,957	297	5,254
1985	8,674	8,799	16.50	67.00	5,068	4,920	221	5,141
1984	9,369	8,812	14.00	59.00	4,772	4,587	255	4,842
1983	8,045	7,830	14.00	53.00	3,722	3,389	223	3,612

¹ Adjustments made for changes in inventory and for inshipments.² Excludes custom slaughter for use on farms where produced and interfarm sales within the state.³ Receipts from marketings and sale of farm slaughter.

Wool Production and Value

YEAR	Number Sheep Shorn	Weight per Fleece	Production	Price per Pound	Value of Production
<i>1,000 Head Pounds 1,000 Pounds Cents 1,000 Dollars</i>					
1987	95	7.6	722	55	397
1986	100	7.6	764	46	351
1985	104	7.5	775	44	341
1984	106	7.8	823	54	444
1983	117	7.7	902	40	361

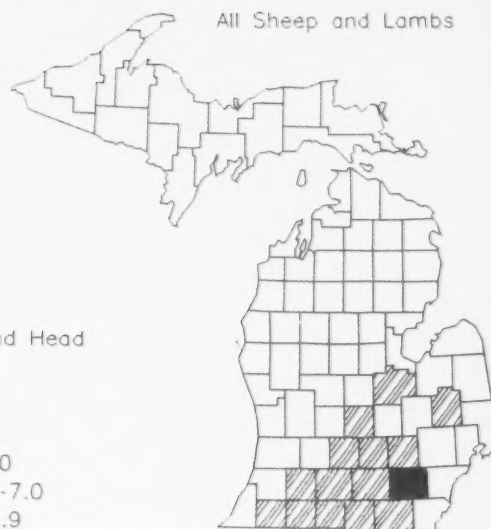
Lamb Crop

YEAR	Breeding Ewes 1 Yr. + January 1	Lamb Crop per 100 Ewes 1 Year +	Lamb Crop
<i>1,000 Head Number 1,000 Head</i>			
1987	68	132	90
1986	71	127	90
1985	73	123	90
1984	72	139	100
1983	76	118	90

Commercial Sheep and Lamb Slaughter

YEAR OR MONTH	Head	Liveweight	
		Per Head	Total
	1,000	Pounds	1,000 Pounds
1987 January	17.7	115	2,039
February	14.4	119	1,704
March	17.6	120	2,112
April	17.2	112	1,924
May	14.6	116	1,684
June	17.8	112	2,005
July	19.1	112	2,145
August	20.6	113	2,328
September	20.0	117	2,334
October	19.4	116	2,239
November	17.2	116	1,993
December	21.7	115	2,502
1987 ¹	217	115	25,007
1986	207	115	23,838
1985	296	114	33,709
1984	342	112	38,347
1983	333	112	37,180

¹ Months may not add exactly to annual totals because of rounding



Poultry

Laying flocks in Michigan produced nearly 1.7 billion eggs during 1987, up nearly 1 percent from the previous year. Value of production was \$54.6 million, down 15 percent from a year earlier. Egg prices averaged nearly 40 cents per dozen, down 7 cents from the 1986 average. This marked the lowest annual average egg price since 1972. The December 1, 1987 inventory of hens and pullets of laying age was 6.6 million birds, down 100,000 from a year earlier. The total chicken inventory, excluding broilers, was 8.5 million birds, up 5 percent from a year ago. The inventory of pullets not of laying age increased by 500,000 birds.

Turkey growers raised a record 3 million birds during 1987, up 11 percent from the previous year. Market prices averaged 36 cents per pound, down sharply from the 1986 average of 51 cents. Prices fell to their lowest level since 1977. Total value of production, \$28.6 million, was down 20 percent from a year earlier. A slight increase in broiler production was offset by a large drop in broiler prices. Value of broiler production was down 5 percent. Michigan broiler production consists largely of small farm flocks. Value of sales for other chickens (primarily cull laying hens) totaled \$1.8 million, down 36 percent from the previous year.

Number on Farms by Class, December 1

CLASS	1987	1986	1985	1984	1983
1,000 Birds					
CHICKENS:					
Pullets of laying age	3,950	4,150	4,200	4,050	3,670
Hens	2,650	2,550	2,900	2,650	2,530
Pullets, 3 months plus	720	620	1,200	1,300	725
Pullets, less than 3 months	1,150	750	860	950	775
Other Chickens	30	30	40	50	50
All Chickens (excluding broilers)	8,500	8,100	9,200	9,000	7,750
TURKEYS:					
Breeder Hens	1	1	1	38	38

¹ Estimates discontinued

Chickens: Average Number of Layers

MONTH	1987	1986	1985
<i>1,000 Birds</i>			
December	6,600	7,050	6,800
January	6,650	6,800	7,000
February	6,775	6,500	7,000
March	6,600	6,400	6,800
April	6,475	6,475	6,600
May	6,625	6,425	6,600
June	6,675	6,325	6,700
July	6,625	6,425	6,700
August	6,600	6,400	6,700
September	6,550	6,350	6,800
October	6,675	6,425	6,950
November	6,700	6,575	7,050
Annual Average ¹	6,628	6,513	6,807

¹ December 1 previous year to November 30.**Egg Production**

MONTH	1987	1986	1985
<i>Million</i>			
December	145	153	141
January	144	143	145
February	130	123	137
March	141	138	151
April	134	136	139
May	143	140	139
June	137	133	136
July	137	137	139
August	136	135	141
September	131	131	138
October	138	137	142
November	140	138	145
Total ¹	1,656	1,644	1,693

¹ December 1 previous year to November 30.**Chicken and Broiler Production and Income**

YEAR	Chickens (excluding broilers)				Broilers			
	Number Raised	Pounds Produced	Price per Pound	Gross Income ¹	Number Produced	Pounds Produced	Price per Pound	Value of Production ²
	<i>1,000 Birds</i>	<i>1,000 Pounds</i>	<i>Cents</i>	<i>1,000 Dollars</i>	<i>1,000 Birds</i>	<i>1,000 Pounds</i>	<i>Cents</i>	<i>1,000 Dollars</i>
1987	4,400 ³	20,240 ⁴	9.0	1,822 ⁵	675	2,903	29.0	842
1986	5,300 ³	23,850 ⁴	12.0	2,862 ⁵	600	2,520	35.0	882
1985	5,500 ³	24,750 ⁴	15.0	3,713 ⁵	1,300	5,460	31.0	1,693
1984	5,500	21,202	11.5	1,850	1,130	4,746	33.0	1,566
1983	5,100	20,147	10.5	2,297	1,130	4,633	30.0	1,390

¹ Value of home consumption included for years 1983-1984.² Gross income including home consumption.³ Number sold.⁴ Pounds sold.⁵ Value of sales.**Turkey Production and Income**

YEAR	Breeder Hens			Market Turkeys			
	Number On Farms December 1	Farm Value		Number Raised ¹	Pounds Produced ²	Price per Pound ³	Gross Income
		Per Bird	Total				
	<i>1,000 Birds</i>	<i>Dollars</i>	<i>1,000 Dollars</i>	<i>1,000 Birds</i>	<i>1,000 Pounds</i>	<i>Cents</i>	<i>1,000 Dollars</i>
1987	4	4	4	3,000	79,500	36.0	28,620
1986	4	4	4	2,700	70,200	51.0	35,802
1985	4	4	4	2,300	59,800	52.0	31,096
1984	38	17.00	646	2,100	52,500	53.0	27,825
1983	38	15.00	570	1,900	47,500	42.0	19,950

¹ Based on turkeys placed September previous year through August, including inshipments. Excludes death loss.² Includes home consumption.³ Liveweight equivalent price.⁴ Estimates discontinued, effective December 31, 1984.

Honey

Honey production in Michigan during 1987 totaled 5.4 million pounds. This is 21 percent higher than the 1986 production. This estimate covers honey taken by producers with 5 or more hives in production. Michigan has a large number of producers who keep only a few bee colonies, but most of the honey taken from these hives is kept for home use and is not part of commercial sales. Bee and honey statistics were not compiled for the years 1982-1985. A provision of the 1985 Food Security Act provided funding to restore annual honey production and price statistics.

Producers with 5 or more hives had a total of 80,000 colonies in production in 1987, unchanged from the previous year. Yield per colony averaged 68 pounds, up twelve pounds from 1986. Good weather throughout the season helped yields ap-

proach a more normal level for 1987. Cloudy and rainy weather during 1986 caused the low yield. Honey prices averaged 53 cents per pound for the 1987 crop. This represents an 8 percent increase from the previous year. This price excludes all government support payments and loans. A large part of the crop was placed under government loan and was not available for sale. Value of honey production totaled \$2.9 million. Honey stocks on hand for sale as of December 15, 1987 were 19 percent of production, unchanged from the same period in 1986. Leading honey production areas include the rich fruit growing region of western Michigan, the "Thumb" and several counties in southeastern Michigan. Nationally, Michigan remained 11 in honey production.

Honey Production and Value

YEAR	Colonies of Bees 1,000	Honey				
		Yield per Colony Pounds	Production 1,000 Pounds	Average Price Cents	Total Value 1,000 Dollars	Stocks Dec. 15 1,000 Pounds
1987	80	68	5,440	53	2,883	1,034
1986	80	56	4,480	51	2,285	851
1981 ¹	98	50	4,900	63	3,072	1,911

¹ Honey statistics for 1981 and earlier years includes production by beekeepers with one or more colonies. Statistics for 1986 cover production by operations with five or more colonies.

Mink

Mink pelt production in Michigan decreased 12,000 in 1986 to 154,500 pelts. Even with this decrease Michigan ranked 8th nationally in mink. The State produces about 4 percent of the Nation's mink pelts. Over half of the State's mink are raised in the Upper Peninsula. The area's cooler temperatures are ideal for mink production. Several color classes are produced in the State with Standard the most predominant. Demi-Buff, Pastel, Violet, Ranch Wild and Mahogany are also popular. These 6 color classes account for 89 percent of the State's pelt production.

Pelt Production and Farms

ITEM	1986	1985	1984	1983	1982
Pelt Production by Color Class:	1,000 Pelts				
Standards	57.5	55.0	56.8	48.4	52.3
Ranch Wild	19.2	18.6	31.9	25.9	19.3
Demi-Buff	19.3	20.2	10.1	12.2	17.8
Pastel	11.0	19.5	14.4	16.5	22.8
Violet	13.2	20.0	23.5	16.5	9.5
Pearl	8.7	13.0	16.6	13.2	11.5
White	7.3	7.3	10.8	9.4	9.1
Mahogany	16.6	11.0	—	—	—
Other	1.7	1.9	3.4	2.4	1.7
Total	154.5	166.5	167.5	144.5	144.0
Females Bred to Produce Kits in Next Year ...	1,000 Females				
	43.5	40.4	42.4	42.7	40.7
Mink Farms Producing Pelts	51	53	56	54	50

DAIRY

General Information

The Dairy Termination Program (DTP) accelerated some of the long term structural changes that have been underway in the Michigan dairy industry. There were 397,000 milk cows in Michigan on January 1, 1986 before the start of the DTP. Cow numbers declined to 358,000 head on January 1, 1988, a drop of 10 percent in only 2 years. The number of Grade A dairy herds operating in the State also showed a sharp drop. There were about 6,800 Grade A herds in 1985 and only 5,300 remained by late 1987. Michigan also had about 800 Grade B herds in 1987, bringing the total number of commercial dairy operations to about 6,100.

Despite the large drop in milk cows and farm numbers, total milk production fell only 6 percent from 1985 to 1987. Continued increases in milk output per cow kept total milk production from falling more sharply. Milk per cow rose 3 percent from 1985 to 1987. A record milk-feed price ratio encouraged heavier concentrate feeding during 1987. Favorable weather conditions and good forage supplies also contributed to increased milk per cow.

Reduced milk production and marketings led to lower cash receipts during 1987. Milk prices averaged \$12.60 per hundredweight (cwt.) unchanged from a year earlier. Strong commercial usage of

dairy products, especially butter and cheese, helped maintain milk prices during the first half of 1987. Over-order payments on Class I milk negotiated by cooperative associations also improved milk prices. The national support price for milk was reduced from \$11.10 to \$10.60 per cwt. on January 1, 1988. The new support price could remain in effect until January 1, 1991. However, provisions of the Food Security Act of 1985 provide for possible increases or decreases of 50 cents per cwt. on January 1, 1989 and January 1, 1990. Milk prices (at the farm level) are expected to decline in 1988 due to the lower support price.

Nationally, per capita consumption of dairy products increased during 1987. Butter consumption increased 2 percent and American cheese was up 3 percent. Consumption of other cheese varieties was up 4 percent, following a 6 percent increase in 1986. Consumption of nonfat dry milk increased 8 percent. Ice cream consumption was unchanged while cottage cheese was down 3 percent. Production and use of Italian cheeses increased 10 percent during 1987. The recent expansion of Italian cheese (mostly mozzarella) and specialty cheese production in Michigan is expected to continue over the next few years.

Cows and Milk Production

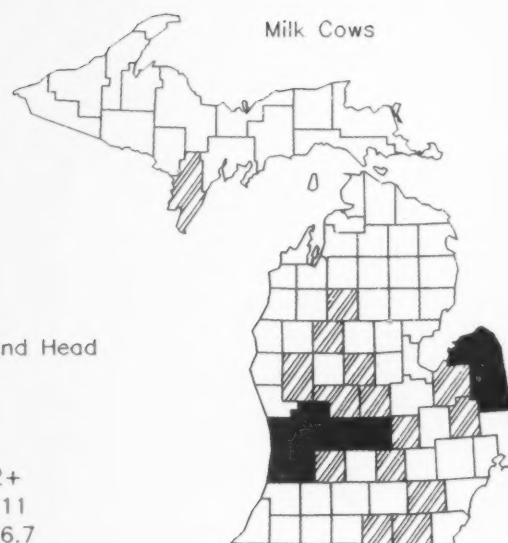
Dairy herds in Michigan produced 5.25 billion pounds of milk during 1987, down 3 percent from a year earlier. The reduced production was due largely to the Dairy Termination Program (DTP) which was still in effect during part of 1987. The third and final cow disposal period under the DTP ran from March 1-August 31, 1987. Average cow numbers, at 361,000 head, were down 5 percent from a year ago. During 1985, before the DTP started, cow numbers averaged 394,000 head. Increased milk per cow continued to offset part of the decline in cow numbers. Milk per cow averaged a record 14,537 pounds, up 2 percent from 1986. Total milk production was at the lowest level since 1981 when 5.1

billion pounds were produced.

Dairy farmers sold nearly 5.2 billion pounds of milk to dairy plants and dealers in 1987, down 3 percent from a year earlier. Dairy cash receipts exceeded \$653 million, down 3 percent from 1986. Milk receipts still accounted for over 25 percent of Michigan's total farm cash receipts in 1987. The value of milk sold averaged \$12.60 per hundredweight, unchanged from a year ago. Cash receipts from milk sold directly to consumers at the farm totaled \$3 million, down 7 percent from a year earlier. Milk used on the farm as livestock food or for household use totaled 75 million pounds, down 6 percent from 1986.

Milk Cows on Farms

MONTH	1987	1986	1985	1984	1983
<i>1,000 Head</i>					
January	367	396	389	400	400
February	364	394	388	400	401
March	363	392	388	397	403
April	362	386	390	397	402
May	361	381	392	394	404
June	360	376	394	392	404
July	359	372	395	392	406
August	358	372	396	392	405
September	358	372	398	392	408
October	358	368	398	392	408
November	358	369	398	391	407
December	358	368	397	390	404
Average	361	379	394	394	404



Total Milk Production

MONTH	1987	1986	1985	1984	1983
<i>Million Pounds</i>					
January	433	465	445	454	450
February	397	426	407	434	413
March	446	474	456	464	463
April	438	465	449	453	454
May	462	490	486	463	477
June	452	472	481	449	471
July	456	461	494	459	481
August	449	458	491	451	476
September	430	435	470	435	465
October	435	431	476	437	469
November	415	406	450	416	448
December	435	421	463	435	461
Annual	5,248	5,404	5,568	5,350	5,528

Milk Production per Cow

MONTH	1987	1986	1985	1984	1983
<i>Pounds</i>					
January	1,180	1,175	1,145	1,135	1,125
February	1,090	1,080	1,050	1,085	1,030
March	1,230	1,210	1,175	1,170	1,150
April	1,210	1,205	1,150	1,140	1,130
May	1,280	1,285	1,240	1,175	1,180
June	1,255	1,255	1,220	1,145	1,165
July	1,270	1,240	1,250	1,170	1,185
August	1,255	1,230	1,240	1,150	1,175
September	1,200	1,170	1,180	1,110	1,140
October	1,215	1,170	1,195	1,115	1,150
November	1,160	1,100	1,130	1,065	1,100
December	1,215	1,145	1,165	1,115	1,140
Annual	14,537	14,259	14,132	13,579	13,683

Farms, Milk Production, Utilization, Marketing and Value

PRODUCTION AND USE	Unit	1987	1986	1985	1984
FARMS					
Number of operations with milk cows ¹	Number	7,000	8,000	8,500	9,000
Number of Grade A herds	Number	5,300	6,400	6,800	6,500
PRODUCTION AND UTILIZATION					
Production of Milk					
Total milk produced on farms	Mil. Lbs.	5,248	5,404	5,568	5,350
Milkfat produced	Mil. Lbs.	191	199	204	197
Percentage of milkfat	Percent	3.63	3.68	3.66	3.68
Utilization					
Milk Marketed by Producers					
Sold to plants and dealers as whole milk ²	Mil. Lbs.	5,160	5,310	5,465	5,230
Sold directly to consumers	Mil. Lbs.	13	14	13	15
Milk used where produced					
Fed to calves	Mil. Lbs.	60	65	70	85
Used by farm household	Mil. Lbs.	15	15	20	20
MARKETINGS					
Milk Marketed by Producers					
Sold to plants and dealers					
Quantity ²	Mil. Lbs.	5,160	5,310	5,465	5,230
Percent fluid grade	Percent	97	97	97	97
Price per 100 pounds	Dollars	12.60	12.60	12.70	13.50
Cash receipts	1,000 Dol.	650,160	669,060	694,055	706,050
Sold Directly to Consumers					
Quantity	1,000 Qts.	6,047	6,512	6,047	6,977
Price per quart	Dollars	.50	.50	.50	.50
Cash receipts	1,000 Dol.	3,023	3,256	3,023	3,488
Total Marketings					
Milk utilized	Mil. Lbs.	5,173	5,324	5,478	5,245
Price per 100 pounds of milk	Dollars	12.63	12.63	12.73	13.53
Price per pound milkfat	Dollars	3.48	3.43	3.48	3.68
Total cash receipts	1,000 Dol.	653,183	672,316	697,078	709,538
VALUE					
Value of milk used where produced ³	1,000 Dol.	9,470	10,102	11,453	14,205
TOTAL VALUE OF MILK PRODUCED	1,000 Dol.	662,653	682,418	708,531	723,743

¹ Any place having one or more milk cows on hand at any time during the year.² Includes the equivalent amounts of milk for cream sold to plants and dealers.³ Includes value of milk fed to calves and milk used by farm household.

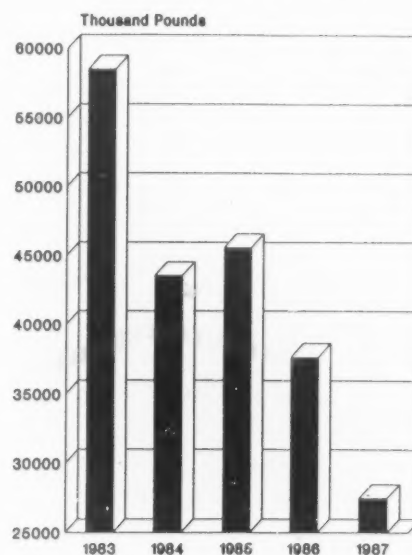
Dairy Products

Production levels for several dairy products manufactured in Michigan showed significant changes during 1987. Production decreases occurred for butter, creamed cottage cheese, unsweetened condensed skim milk, non-fat dry milk and specialty cheeses (such as Havarti). Increased consumer demand contributed to increased production of American cheese, ice cream, ice milk and milk sherbet. During 1987, a total of 56 plants produced one or more dairy products for which statistics are compiled. Only 7 states topped Michigan in the number of dairy manufacturing plants.

Butter Production

MONTH	1987	1986	1985
<i>1,000 Pounds</i>			
January	2,107	4,510	3,523
February	2,001	4,236	3,456
March	2,240	4,174	3,757
April	2,922	5,146	3,763
May	3,225	4,112	4,429
June	2,497	3,069	3,546
July	1,680	1,955	3,546
August	1,164	1,866	3,930
September	1,819	2,182	3,600
October	1,991	2,117	4,078
November	2,715	1,846	3,521
December	3,134	2,464	4,459
Annual	27,495	37,677	45,608

Butter Production



Nonfat Dry Milk Production¹

MONTH	1987	1986	1985
<i>1,000 Pounds</i>			
January	5,021	8,952	6,807
February	6,104	8,795	6,204
March	6,019	9,647	7,473
April	7,420	10,357	7,815
May	8,140	10,785	9,927
June	8,099	10,242	10,767
July	7,467	8,988	10,968
August	5,561	7,340	10,898
September	4,243	5,591	8,263
October	4,568	3,900	9,468
November	3,425	4,214	7,891
December	5,395	5,748	9,457
Annual	71,462	94,559	105,938

Creamed Cottage Cheese Production

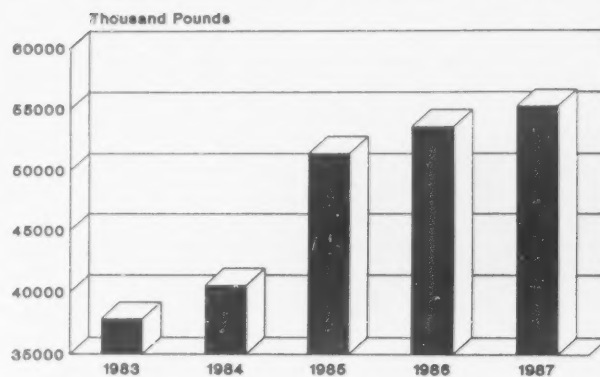
MONTH	1987	1986	1985
<i>1,000 Pounds</i>			
January	2,724	2,892	3,064
February	2,352	2,493	2,936
March	2,855	2,820	3,154
April	2,590	2,876	3,292
May	2,742	3,106	3,519
June	2,746	2,726	2,850
July	2,989	2,998	3,238
August	2,633	2,870	3,113
September	2,672	2,737	2,912
October	2,539	3,012	2,897
November	2,472	2,536	2,675
December	2,291	2,638	2,421
Annual	31,605	33,705	36,071

¹ Used for human food.

Total Cheese Production¹

MONTH	1987	1986	1985
<i>1,000 Pounds</i>			
January	4,518	3,970	4,376
February	4,259	3,462	4,190
March	4,727	3,721	3,967
April	4,692	4,072	5,223
May	5,325	4,582	5,491
June	5,022	5,136	4,696
July	4,745	4,522	3,896
August	4,714	4,349	3,985
September	4,700	4,587	3,852
October	3,911	4,989	4,082
November	3,316	4,927	3,784
December	4,646	5,249	3,845
Annual	55,075	53,566	51,387

¹ Includes American Cheeses, Mozzarella and other Italian Cheeses, Cream Cheese, Feta, Havarti and Farmers Cheese. Excludes Cottage Cheeses

Total Cheese Production**American Cheese Production¹**

MONTH	1987	1986	1985
<i>1,000 Pounds</i>			
January	2,586	1,407	1,966
February	2,037	1,253	2,287
March	2,104	1,292	1,387
April	2,333	1,397	2,491
May	2,723	1,901	2,620
June	2,534	2,449	1,862
July	2,242	1,778	1,353
August	1,890	1,723	1,722
September	2,098	1,738	1,196
October	1,260	2,290	1,214
November	1,465	2,333	1,302
December	1,479	2,549	1,176
Annual	24,751	22,110	20,576

¹ Includes Cheddar, Colby, Washed or Stirred Curd, Monterey and Jack

Ice Cream Production

MONTH	1987	1986	1985
<i>1,000 Gallons</i>			
January	2,468	2,349	2,408
February	2,460	2,205	2,419
March	2,994	2,767	2,734
April	3,074	2,720	3,116
May	3,303	3,262	3,477
June	4,063	3,436	3,509
July	4,280	3,704	4,144
August	3,422	3,504	3,510
September	2,645	2,801	2,870
October	2,029	2,554	2,687
November	1,800	1,978	2,205
December	1,970	2,240	2,255
Annual	34,508	33,520	35,334

Ice Milk Production

MONTH	1987	1986	1985
<i>1,000 Gallons</i>			
January	529	505	609
February	518	613	617
March	874	742	940
April	1,044	1,114	1,111
May	1,343	1,424	1,346
June	1,576	1,521	1,272
July	1,684	1,588	1,545
August	1,218	1,218	1,381
September	830	923	931
October	1,610	844	745
November	525	596	583
December	1,221	715	529
Annual	12,972	11,803	11,609

Milk Sherbet Production

MONTH	1987	1986	1985
<i>1,000 Gallons</i>			
January	96	115	105
February	103	90	75
March	122	125	122
April	167	151	119
May	175	183	185
June	294	176	147
July	327	293	157
August	163	186	160
September	146	142	108
October	76	96	118
November	100	123	102
December	124	128	126
Annual	1,893	1,808	1,524

County Estimates



Rank of Michigan's Counties¹

COUNTY	Farms	Corn	Soy-beans	Wheat	Dry Beans	Oats	Pota-toes	Barley	All Cattle	Milk Cows	All Hogs	HP LA ²	Sheep
Alger	77	—	—	—	—	77	—	27	71*	69	73*	—	33*
Baraga	78	—	—	—	—	71	—	47*	78	74*	—	—	—
Chippewa	49	—	—	61	—	28*	—	10	49	43*	57*	19	19
Delta	54	62	48	63	23	32	9	3	45*	40*	47*	57*	61*
Dickinson	69*	67	—	—	—	62	12	30	66	63	67*	—	—
Gogebic	76	—	—	—	—	78*	—	—	80	76*	—	—	74*
Houghton	64	—	—	—	—	50	—	26	71*	64*	73*	29*	41*
Iron	72	—	—	66	—	64	31	68*	69	70*	73*	—	54*
Keweenaw	83	—	—	—	—	—	—	—	—	—	—	—	—
Luce	81	—	—	70	—	73	17	37	73	—	72	—	74*
Mackinac	73	70	—	65	—	60	—	36	63	58*	73*	—	74*
Marquette	68	—	—	—	—	74	18	31	75*	70*	70*	—	58*
Menominee	44	45	—	72	—	34	—	4	27*	22	57*	24*	58*
Ontonagon	66	—	—	71	—	63	—	62	62	61*	73*	—	48*
Schoolcraft	79	—	—	69	—	68	—	19	74	76*	70*	—	—
Antrim	58	52*	—	49	39	59	4	64*	52	50*	53	21	41*
Benzie	65	66	—	68	—	82	—	—	75*	76*	47*	—	67*
Charlevoix	59	55	—	64	43	67	—	38	53	47*	51*	27*	56*
Emmet	60	64	—	73*	42	58	28	49	55	58*	61*	57*	61*
Grand Traverse	43	48	53	41	—	56	—	64*	58*	64*	41*	52*	56*
Kalkaska	74	63	52	52	—	76	11	—	77	70*	57*	—	70*
Leelanau	48	54	—	62	—	70	—	—	57	61*	55	38	67*
Manistee	56	60	43*	60	25	75	21	58	67	74*	57*	55*	61*
Missaukee	51	52*	—	53	40*	46	—	67	19	10*	41*	57*	45*
Wexford	62	58	—	51	—	66	—	—	61	52	56	—	61*
Alcona	57	61	—	54	38	65	—	23	50	58*	66	24*	33*
Alpena	45	51	47	43	16	20	30	14	39	36*	54	46	37*
Cheboygan	63	68*	—	59	36	61	—	20	54	50*	61*	52*	48*
Crawford	82	—	—	—	—	80*	—	—	82	—	—	—	—
Iosco	61	46	46	42	31	48	—	40*	44	55	46	—	48*
Montmorency	71	56	—	56	27*	55	—	32	64*	53*	67*	—	61*
Ogemaw	55	47	51	55	32	36	—	11	33*	30*	61*	57*	45*
Oscoda	75	68*	—	73*	—	78*	—	59*	68	64*	73*	57*	48*
Otsego	67	59	—	57*	35	57	13	59*	64*	64*	69	—	70*
Presque Isle	52	57	—	44	15	28*	3	12	41*	42	50	50*	58*
Roscommon	80	—	—	73*	—	80*	—	70*	81	—	73*	—	74*
Lake	69*	65	—	67	—	69	—	—	70	70*	61*	57*	54*
Mason	41	41	43*	40	—	39	—	39	40	35	41*	29*	25*
Muskegon	42	40	37	45	—	54	—	56	37	32	40	57*	67*
Newaygo	35	34*	42	46	—	40	—	63	20*	13*	38*	9	41*
Oceana	36	42	50	48	—	53	—	46	35*	38*	29*	16	41*
Clare	53	49	41	50	40*	44	—	24	35*	40*	32	57*	30
Gladwin	47	44	38	38	21*	33	—	28	41*	47*	47*	50*	25*
Gratiot	21	11	5	15	3	24	27	54	11*	19	20*	13	31*

Rank of Michigan's Counties¹

COUNTY	Farms	Corn	Soy-beans	Wheat	Dry Beans	Oats	Pota-toes	Barley	All Cattle	Milk Cows	All Hogs	HP LA ²	Sheep
Isabella	30	33	25	19	13	12	—	7	9	8*	19	7	16
Mecosta	38	38	45	39	17	43	8	25	29	27*	35*	47*	17*
Midland	40	34*	24	33	10	42	—	72	58*	64*	35*	55*	61*
Montcalm	24	26	27	16	7	10	1	8	18	10*	27	40*	28*
Osceola	39	50	49	57*	—	45	—	22	26	20	44*	32	31*
Arenac	50	39	31	32	9	23	7	51	41*	36*	35*	47*	70*
Bay	26	27	21	28*	4	41	2	42	58*	53*	44*	47*	70*
Huron	5	2	35	2	1	2	22*	1	1	2	9*	4	48*
Saginaw	4	9	1	1	6	14	26	43	30*	30*	28	33*	14*
Sanilac	1	5	6	9	5	1	22*	2	2	1	29*	39	37*
Tuscola	10	7	23	5	2	6	10	5	20*	21	22*	5	33*
Allegan	2	10	29	21	37	19	5	40*	4	3	2	3	20*
Berrien	3	23	15	31	—	52	—	70*	47*	46	15	15	48*
Cass	29	8	13	23*	—	37	—	21	38	43*	1	40*	12
Kalamazoo	32	12	14	17	—	38	—	57	33*	38*	13	6	7*
Kent	8	25	36	26	20	16	15	16	5	6	20*	33*	33*
Ottawa	7	30	39	35	—	27	34	45	3	4	3	1	45*
Van Buren	11	18	28	36	—	51	—	33	45*	47*	4	8	28*
Barry	27	32	26	23*	26	31	25	50	15*	13*	24	33*	17*
Branch	23	1	9	14	—	35	—	29	23*	29	6	33*	9*
Calhoun	19	15	20	10	—	13	—	55	14	23	9*	11	14*
Clinton	9	19	4	7	14	9	—	17	6	5	16*	29*	7*
Eaton	14	16	12	4	8	21	16	44	23*	25*	16*	20	4
Hillsdale	16	6	11	12	—	15	—	73	11	13*	7	10	6
Ingham	25	21	18	8	21*	30	—	34	15*	12	14	17*	5
Ionia	22	14	16	6	12	8	—	6	7	7	11*	2	22*
Jackson	20	20	34	20	33	25	32*	47*	8	24	5	26	3
St. Joseph	28	4	8	27	—	49	—	53	30*	33*	8	17*	9*
Shiawassee	13	31	7	18	19	4	32*	18	20*	13*	25	27*	22*
Genesee	31	29	19	30	24	11	24	35	32	33*	26	33*	25*
Lapeer	15	17	30	25	11	5	19	15	11*	8*	31	40*	9*
Lenawee	6	3	2	3	27*	18	14	52	10	18	11*	22*	2
Livingston	33	28	32	28*	34	22	—	68*	27*	25*	34	40*	13
Macomb	34	36	17	34	29	26	29	59*	51	45	33	40*	37*
Monroe	12	13	3	13	30	17	6	66	47*	56*	22*	14	22*
Oakland	37	37	40	37	—	47	—	—	56	56*	51*	52*	20*
St. Clair	18	24	10	22	18	7	—	13	23*	27*	38*	12	40
Washtenaw	17	22	22	11	—	3	20	9	15*	13*	18	22*	1
Wayne	46	43	33	47	—	72	—	—	79	76*	61*	40*	74*

¹ Livestock rankings based on number of head. Crop rankings based on production. Corn rankings based on grain production. Number of farms data from 1982 Census of Agriculture. All other rankings from 1987 County Estimates.

² HPLA — Hens and Pullets of Laying Age.

* Tied with another county.

CATTLE AND SHEEP: January 1, 1988

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
	Head				
Alger.....	2,100	800	600	200	900
Baraga.....	1,200	600	300	300	--
Chippewa.....	7,500	3,800	2,200	1,600	1,700
Delta.....	8,500	4,300	2,500	1,800	200
Dickinson.....	3,000	1,500	800	700	--
Gogebic.....	700	400	100	300	50
Houghton.....	2,100	1,000	700	300	600
Iron.....	2,300	1,500	400	1,100	350
Keweenaw.....	--	--	--	--	--
Luce.....	1,900	300	--	300	50
Mackinac.....	3,400	1,600	1,000	600	50
Marquette.....	1,500	800	400	400	250
Menominee.....	19,000	8,500	7,000	1,500	250
Ontonagon.....	4,000	1,700	900	800	400
Schoolcraft.....	1,800	700	100	600	--
UPPER PENINSULA (1).....	59,000	27,500	17,000	10,500	4,800
Antrim.....	6,400	2,200	1,600	600	600
Benzie.....	1,500	400	100	300	150
Charlevoix.....	6,300	3,000	1,700	1,300	300
Emmett.....	5,600	2,900	1,000	1,900	200
Grand Traverse.....	5,000	1,500	700	800	300
Kalkaska.....	1,400	600	400	200	100
Leelanau.....	5,300	1,400	900	500	100
Manistee.....	2,800	1,200	300	900	200
Missaukee.....	23,000	10,200	9,300	900	500
Wexford.....	4,700	2,100	1,500	600	200
NORTHWEST (2).....	62,000	25,500	17,500	8,000	2,700
Alcona.....	7,200	3,200	1,000	2,200	900
Alpena.....	10,500	4,900	3,000	1,900	800
Cheboygan.....	6,000	3,100	1,600	1,500	400
Crawford.....	100	--	--	--	--
Iosco.....	8,700	3,600	1,300	2,300	400
Montmorency.....	3,300	1,800	1,400	400	200
Ogemaw.....	14,000	6,100	4,500	1,600	500
Oscoda.....	2,500	1,200	700	500	400
Otsego.....	3,300	1,200	700	500	100
Presque Isle.....	9,000	4,300	2,300	2,000	250
Roscommon.....	400	100	--	100	50
NORTHEAST (3).....	65,000	29,500	16,500	13,000	4,000
Lake.....	2,200	900	400	500	350
Mason.....	9,300	3,600	3,100	500	1,300
Muskegon.....	12,000	4,300	3,700	600	150
Newaygo.....	22,000	9,500	8,000	1,500	600
Oceana.....	12,500	4,200	2,800	1,400	600
WEST CENTRAL (4).....	58,000	22,500	18,000	4,500	3,000
Clare.....	12,500	5,000	2,500	2,500	1,100
Gladwin.....	9,000	3,900	1,700	2,200	1,300
Gratiot.....	29,000	10,000	7,600	2,400	1,000

CATTLE AND SHEEP: January 1, 1988

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
	Head				
Isabella.....	30,500	12,200	9,800	2,400	1,900
Mecosta.....	18,000	7,800	5,200	2,600	1,800
Midland.....	5,000	1,500	700	800	200
Montcalm.....	24,500	10,400	9,300	1,100	1,200
Osceola.....	19,500	10,200	7,200	3,000	1,000
CENTRAL (5).....	148,000	61,000	44,000	17,000	9,500
Arenac.....	9,000	3,400	3,000	400	100
Bay.....	5,000	1,700	1,400	300	100
Huron.....	82,000	20,800	18,000	2,800	400
Saginaw.....	15,000	5,700	4,500	1,200	2,000
Sanilac.....	74,000	30,000	28,000	2,000	800
Tuscola.....	22,000	9,400	7,100	2,300	900
E.CENTRAL (6).....	207,000	71,000	62,000	9,000	4,300
Allegan.....	44,000	18,500	15,500	3,000	1,500
Berrien.....	8,000	3,100	1,800	1,300	400
Cass.....	11,500	5,200	2,200	3,000	2,400
Kalamazoo.....	14,000	4,800	2,800	2,000	2,800
Kent.....	40,000	17,000	14,000	3,000	900
Ottawa.....	46,000	19,000	15,000	4,000	500
Van Buren.....	8,500	3,900	1,700	2,200	1,200
SOUTHWEST (7).....	172,000	71,500	53,000	18,500	9,700
Barry.....	26,000	11,600	8,000	3,600	1,800
Branch.....	20,000	6,700	4,800	1,900	2,500
Calhoun.....	28,000	11,200	6,700	4,500	2,000
Clinton.....	39,000	16,200	14,500	1,700	2,800
Eaton.....	20,000	9,300	5,500	3,800	4,000
Hillsdale.....	29,000	11,000	8,000	3,000	3,300
Ingham.....	26,000	10,700	8,500	2,200	3,800
Ionia.....	37,000	14,700	12,500	2,200	1,400
Jackson.....	32,000	10,700	6,200	4,500	6,500
St. Joseph.....	15,000	4,900	3,300	1,600	2,500
Shiawassee.....	22,000	10,000	8,000	2,000	1,400
S.CENTRAL (8).....	294,000	117,000	86,000	31,000	32,000
Genesee.....	14,500	4,800	3,300	1,500	1,300
Lapeer.....	29,000	13,100	9,800	3,300	2,500
Lenawee.....	30,000	10,000	7,800	2,200	6,700
Livingston.....	19,000	7,400	5,500	1,900	2,100
Macomb.....	7,000	2,700	1,900	800	800
Monroe.....	8,000	1,800	1,200	600	1,400
Oakland.....	5,500	2,400	1,200	1,200	1,500
St. Clair.....	20,000	9,700	5,200	4,500	650
Washtenaw.....	26,000	10,400	8,000	2,400	18,000
Wayne.....	1,000	200	100	100	50
SOUTHEAST (9).....	160,000	62,500	44,000	18,500	35,000
STATE.....	1,225,000	488,000	358,000	130,000	105,000

Cattle and Sheep: January 1, 1987

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
	Head				
Alger.....	2,200	900	700	200	800
Baraga.....	1,400	700	400	300	--
Chippewa.....	8,900	4,500	2,500	2,000	1,500
Delta.....	9,600	4,700	2,700	2,000	150
Dickinson.....	3,300	1,500	800	700	--
Gogebic.....	1,000	400	100	300	100
Houghton.....	2,700	1,200	800	400	200
Iron.....	2,500	1,600	300	1,300	300
Keweenaw.....	--	--	--	--	--
Luce.....	1,600	300	--	300	50
Mackinac.....	4,000	1,700	1,000	700	50
Marquette.....	1,800	900	500	400	200
Menominee.....	20,000	8,900	7,300	1,600	150
Ontonagon.....	4,100	1,800	800	1,000	300
Schoolcraft.....	1,900	900	100	800	--
UPPER PENINSULA (1).....	65,000	30,000	18,000	12,000	3,800
Antrim.....	7,600	2,400	1,700	700	350
Benzie.....	1,600	500	100	400	250
Charlevoix.....	7,000	3,400	1,600	1,800	400
Emmett.....	6,500	3,300	1,000	2,300	250
Grand Traverse.....	6,300	1,900	1,000	900	500
Kalkaska.....	1,200	400	200	200	50
Leelanau.....	6,200	1,300	800	500	100
Manistee.....	3,000	1,300	300	1,000	200
Missaukee.....	23,000	10,300	9,400	900	500
Wexford.....	4,600	2,200	1,400	800	200
NORTHWEST (2).....	67,000	27,000	17,500	9,500	2,800
Alcona.....	8,700	3,500	1,000	2,500	800
Alpena.....	11,500	5,500	3,300	2,200	800
Cheboygan.....	6,500	3,400	1,700	1,700	400
Crawford.....	100	--	--	--	--
Iosco.....	10,500	4,100	1,500	2,600	500
Montmorency.....	3,200	1,700	1,200	500	250
Ogemaw.....	14,000	5,800	3,900	1,900	600
Oscoda.....	3,200	1,400	800	600	400
Otsego.....	3,800	1,300	700	600	100
Presque Isle.....	10,000	4,600	2,400	2,200	200
Roscommon.....	500	200	--	200	50
NORTHEAST (3).....	72,000	31,500	16,500	15,000	4,100
Lake.....	2,500	1,200	700	500	300
Mason.....	11,000	3,800	3,300	500	1,500
Muskegon.....	13,000	4,800	4,100	700	200
Newaygo.....	22,500	9,500	7,800	1,700	1,600
Oceana.....	14,000	4,700	3,100	1,600	900
WEST CENTRAL (4).....	63,000	24,000	19,000	5,000	4,500
Clare.....	14,000	5,600	2,700	2,900	1,200
Gladwin.....	10,000	4,300	1,700	2,600	1,300
Gratiot.....	32,000	10,900	8,100	2,800	1,300

Cattle and Sheep: January 1, 1987

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
	Head				
Isabella.....	33,000	13,300	10,300	3,000	1,400
Mecosta.....	19,500	8,600	5,500	3,100	1,500
Midland.....	7,500	1,600	700	900	200
Montcalm.....	25,000	11,000	9,800	1,200	1,100
Osceola.....	20,000	10,700	7,200	3,500	1,000
CENTRAL (5).....	161,000	66,000	46,000	20,000	9,000
Arenac.....	9,000	3,200	2,700	500	100
Bay.....	5,000	1,700	1,300	400	100
Huron.....	81,000	22,100	19,000	3,100	400
Saginaw.....	15,500	5,800	4,400	1,400	1,900
Sanilac.....	75,000	31,300	29,000	2,300	700
Tuscola.....	24,500	10,400	7,600	2,800	1,100
E.CENTRAL (6).....	210,000	74,500	64,000	10,500	4,300
Allegan.....	48,000	18,400	15,000	3,400	2,000
Berrien.....	8,500	3,700	2,300	1,400	500
Cass.....	13,000	6,100	2,600	3,500	2,500
Kalamazoo.....	18,000	5,900	3,500	2,400	2,200
Kent.....	42,000	16,600	13,300	3,300	900
Ottawa.....	47,000	17,700	13,200	4,500	600
Van Buren.....	10,500	4,600	2,100	2,500	1,300
SOUTHWEST (7).....	187,000	73,000	52,000	21,000	10,000
Barry.....	28,000	12,400	8,200	4,200	1,700
Branch.....	22,500	7,000	4,800	2,200	3,000
Calhoun.....	31,000	12,000	6,700	5,300	2,200
Clinton.....	40,000	16,700	14,800	1,900	3,000
Eaton.....	22,500	9,600	5,200	4,400	3,700
Hillsdale.....	32,000	12,500	9,000	3,500	3,800
Ingham.....	27,500	11,800	9,300	2,500	3,300
Ionia.....	38,000	15,300	12,800	2,500	1,500
Jackson.....	36,000	13,000	7,700	5,300	7,000
St. Joseph.....	16,000	5,500	3,700	1,800	2,500
Shiawassee.....	24,500	10,200	7,800	2,400	1,300
S.CENTRAL (8).....	318,000	126,000	90,000	36,000	33,000
Genesee.....	18,000	5,200	3,500	1,700	1,400
Lapeer.....	35,000	14,200	10,400	3,800	2,500
Lenawee.....	33,000	10,300	7,900	2,400	6,800
Livingston.....	23,000	8,400	6,300	2,100	2,200
Macomb.....	8,500	3,400	2,500	900	700
Monroe.....	9,000	2,200	1,400	800	1,100
Oakland.....	5,500	2,600	1,200	1,400	1,000
St. Clair.....	21,500	10,800	5,600	5,200	700
Washtenaw.....	27,000	10,700	8,100	2,600	18,000
Wayne.....	1,500	200	100	100	100
SOUTHEAST (9).....	182,000	68,000	47,000	21,000	34,500
STATE.....	1,325,000	520,000	370,000	150,000	106,000

MILK: Cow Number, Production Per Cow, Total Production, 1986-87

DISTRICT AND COUNTY	1987			1986		
	Milk Cows	Milk Per Cow	Total Milk Produced	Milk Cows	Milk Per Cow	Total Milk Produced
	Head	Pounds	1,000 Pounds	Head	Pounds	1,000 Pounds
Alger.....	600	13,830	8,300	700	13,570	9,500
Baraga.....	300	15,000	4,500	400	14,500	5,800
Chippewa.....	2,200	13,180	29,000	2,500	12,920	32,300
Delta.....	2,500	13,200	33,000	2,800	12,960	36,300
Dickinson.....	800	15,630	12,500	800	15,250	12,200
Gogebic.....	100	14,000	1,400	100	14,000	1,400
Houghton.....	700	13,860	9,700	900	13,560	12,200
Iron.....	400	15,500	6,200	300	15,330	4,600
Keweenaw.....	--	--	--	--	--	--
Luce.....	--	--	--	--	--	--
Mackinac.....	1,000	14,700	14,700	1,000	14,400	14,400
Marquette.....	400	13,500	5,400	500	13,200	6,600
Menominee.....	7,000	13,360	93,500	7,500	13,070	98,000
Ontonagon.....	900	14,780	13,300	800	14,630	11,700
Schoolcraft.....	100	15,000	1,500	200	15,000	3,000
UPPER PENINSULA (1)....	17,000	13,706	233,000	18,500	13,405	248,000
Antrim.....	1,600	14,190	22,700	1,800	14,170	25,500
Benzie.....	100	14,000	1,400	100	14,000	1,400
Charlevoix.....	1,700	13,940	23,700	1,700	13,820	23,500
Emmet.....	1,000	14,200	14,200	1,000	14,000	14,000
Grand Traverse...	700	15,290	10,700	1,100	15,180	16,700
Kalkaska.....	400	13,250	5,300	200	13,000	2,600
Leelanau.....	900	15,000	13,500	800	15,000	12,000
Manistee.....	300	13,330	4,000	300	12,670	3,800
Missaukee.....	9,300	15,810	147,000	9,600	15,780	151,500
Wexford.....	1,500	13,670	20,500	1,400	13,570	19,000
NORTHWEST(2)....	17,500	15,029	263,000	18,000	15,000	270,000
Alcona.....	1,000	15,500	15,500	1,000	15,300	15,300
Alpena.....	3,000	15,330	46,000	3,300	15,300	50,500
Cheboygan.....	1,600	15,310	24,500	1,700	15,290	26,000
Crawford.....	--	--	--	--	--	--
Iosco.....	1,300	15,380	20,000	1,500	15,330	23,000
Montmorency.....	1,400	13,570	19,000	1,200	13,330	16,000
Ogemaw.....	4,500	14,670	66,000	3,900	13,970	54,500
Oscoda.....	700	15,430	10,800	800	15,250	12,200
Otsego.....	700	14,570	10,200	700	14,290	10,000
Presque Isle.....	2,300	13,910	32,000	2,400	13,540	32,500
Roscommon.....	--	--	--	--	--	--
NORTHEAST (3)....	16,500	14,788	244,000	16,500	14,545	240,000
Lake.....	400	15,000	6,000	700	14,290	10,000
Mason.....	3,100	15,000	46,500	3,400	14,560	49,500
Muskegon.....	3,700	14,860	55,000	4,200	14,170	59,500
Newaygo.....	8,000	14,880	119,000	8,000	14,250	114,000
Oceana.....	2,800	15,180	42,500	3,200	14,690	47,000
W. CENTRAL (4)...	18,000	14,944	269,000	19,500	14,359	280,000
Clare.....	2,500	15,200	38,000	2,800	14,640	41,000
Gladwin.....	1,700	15,000	25,500	1,800	14,610	26,300
Gratiot.....	7,600	15,530	118,000	8,200	14,940	122,500

MILK: Cow Number, Production Per Cow, Total Production, 1986-87

DISTRICT AND COUNTY	1987			1986		
	Milk Cows	Milk Per Cow	Total Milk Produced	Milk Cows	Milk Per Cow	Total Milk Produced
	Head	Pounds	1,000 Pounds	Head	Pounds	1,000 Pounds
Isabella.....	9,800	14,800	145,000	10,800	13,980	151,000
Mecosta.....	5,200	15,380	80,000	5,700	14,820	84,500
Midland.....	700	14,290	10,000	700	13,860	9,700
Montcalm.....	9,300	14,190	132,000	10,000	13,450	134,500
Osceola.....	7,200	14,930	107,500	7,500	14,470	108,500
CENTRAL (5).....	44,000	14,909	656,000	47,500	14,274	678,000
Arenac.....	3,000	13,000	39,000	2,700	12,960	35,000
Bay.....	1,400	14,640	20,500	1,300	14,230	18,500
Huron.....	18,500	15,140	280,000	19,500	15,030	293,000
Saginaw.....	4,500	14,330	64,500	4,700	14,150	66,500
Sanilac.....	28,500	15,330	437,000	29,000	15,280	443,000
Tuscola.....	7,100	13,660	97,000	7,800	13,590	106,000
E. CENTRAL (6)...	63,000	14,889	938,000	65,000	14,800	962,000
Allegan.....	15,500	14,390	223,000	15,500	14,060	218,000
Berrien.....	1,800	14,170	25,500	2,300	13,910	32,000
Cass.....	2,200	13,410	29,500	2,600	13,080	34,000
Kalamazoo.....	2,800	13,930	39,000	3,500	13,710	48,000
Kent.....	14,000	15,000	210,000	13,500	14,810	200,000
Ottawa.....	15,000	14,800	222,000	13,500	14,890	201,000
Van Buren.....	1,700	13,530	23,000	2,100	12,860	27,000
SOUTHWEST (7)...	53,000	14,566	772,000	53,000	14,340	760,000
Barry.....	8,000	14,250	114,000	8,500	14,120	120,000
Branch.....	4,800	13,750	66,000	4,900	13,570	66,500
Calhoun.....	6,700	14,330	96,000	7,000	14,290	100,000
Clinton.....	14,700	15,310	225,000	15,000	14,530	218,000
Eaton.....	5,500	13,270	73,000	5,400	13,150	71,000
Hillsdale.....	8,500	14,470	123,000	9,200	14,350	132,000
Ingham.....	9,000	14,440	130,000	9,500	14,210	135,000
Ionia.....	12,500	13,920	174,000	13,000	13,620	177,000
Jackson.....	6,800	13,460	91,500	7,700	13,180	101,500
St. Joseph.....	3,500	13,570	47,500	3,800	13,420	51,000
Shiawassee.....	8,000	13,750	110,000	8,000	13,500	108,000
S. CENTRAL (8)...	88,000	14,205	1,250,000	92,000	13,913	1,280,000
Genesee.....	3,300	14,550	48,000	3,900	14,360	56,000
Lapeer.....	9,800	14,590	143,000	10,500	14,520	152,500
Lenawee.....	7,800	14,870	116,000	8,000	14,690	117,500
Livingston.....	5,500	13,640	75,000	6,700	13,580	91,000
Macomb.....	1,900	13,790	26,200	2,800	13,680	38,300
Monroe.....	1,200	14,170	17,000	1,400	14,000	19,600
Oakland.....	1,200	13,670	16,400	1,300	13,620	17,700
St. Clair.....	5,200	13,080	68,000	6,000	12,830	77,000
Washtenaw.....	8,000	14,000	112,000	8,300	13,860	115,000
Wayne.....	100	14,000	1,400	100	14,000	1,400
SOUTHEAST (9)...	44,000	14,159	623,000	49,000	14,000	686,000
STATE.....	361,000	14,537	5,248,000	379,000	14,259	5,404,000

HOGS AND PIGS, CHICKENS: December 1, 1986-87

DISTRICT AND COUNTY	All Hogs and Pigs		Sows Farrowed		Hens and Pullets of Laying Age	
	1987	1986	1987	1986	1987	1986
	Head		Birds			
Alger.....	100	200	--	--	--	--
Baraga.....	--	--	--	--	--	--
Chippewa.....	800	800	200	150	41,000	72,000
Delta.....	2,000	1,800	350	300	1,000	1,000
Dickinson.....	500	100	--	--	--	--
Gogebic.....	--	100	--	--	--	--
Houghton.....	100	200	--	--	10,000	9,000
Iron.....	100	100	--	--	--	--
Keweenaw.....	--	--	--	--	--	--
Luce.....	200	200	--	--	--	--
Mackinac.....	100	--	--	--	--	--
Marquette.....	350	500	--	100	--	--
Menominee.....	800	1,000	250	300	17,000	15,000
Ontonagon.....	100	100	--	--	--	--
Schoolcraft.....	350	400	--	--	--	--
UPPER PENINSULA (1).....	5,500	5,500	1,000	1,000	72,000	101,000
Antrim.....	1,300	1,300	250	250	22,000	22,000
Benzie.....	2,000	2,200	300	250	--	1,000
Charlevoix.....	1,500	1,800	250	250	14,000	24,000
Emmet.....	700	500	100	--	1,000	1,000
Grand Traverse.....	4,000	3,500	700	600	2,000	2,000
Kalkaska.....	800	800	150	100	--	--
Leelanau.....	1,000	1,200	150	200	7,000	11,000
Manistee.....	800	1,000	150	150	1,500	1,000
Missaukee.....	4,000	4,000	800	900	1,000	1,000
Wexford.....	900	1,200	150	250	--	--
NORTHWEST (2).....	17,000	17,500	3,000	3,000	50,000	64,000
Alcona.....	600	1,200	100	200	17,000	17,000
Alpena.....	1,200	1,100	200	200	4,000	8,000
Cheboygan.....	700	1,300	100	250	2,000	1,000
Crawford.....	--	--	--	--	--	--
Iosco.....	2,500	2,200	450	400	--	--
Montmorency.....	500	300	100	--	--	--
Ogemaw.....	700	800	150	200	1,000	1,000
Oscoda.....	100	--	--	--	1,000	--
Otsego.....	400	500	100	100	--	--
Presque Isle.....	1,700	500	300	100	2,500	2,700
Roscommon.....	100	--	--	--	--	--
NORTHEAST (3).....	8,500	8,000	1,500	1,500	30,000	33,000
Lake.....	700	600	100	100	1,000	1,500
Mason.....	4,000	3,000	700	600	10,000	7,000
Muskegon.....	4,500	4,600	800	1,100	1,000	1,500
Newaygo.....	4,800	8,300	1,000	2,000	130,000	128,000
Oceana.....	9,000	9,500	1,900	2,200	46,000	57,000
WEST CENTRAL (4).....	23,000	26,000	4,500	6,000	188,000	195,000
Clare.....	8,000	6,000	1,500	1,200	1,000	--
Gladwin.....	2,000	2,500	400	600	2,500	2,500
Gratiot.....	21,000	21,000	4,000	3,700	63,000	103,000

HOGS AND PIGS, CHICKENS: December 1, 1986-87

DISTRICT AND COUNTY	All Hogs and Pigs		Sows Farrowed		Hens and Pullets of Laying Age	
	1987	1986	1987	1986	1987	1986
	Head		Birds			
Isabella.....	22,000	17,000	4,000	3,000	185,000	185,000
Mecosta.....	5,500	4,500	1,000	900	3,000	2,500
Midland.....	5,500	5,200	1,000	1,100	1,500	1,300
Montcalm.....	11,000	12,500	2,000	2,200	5,000	6,000
Osceola.....	3,000	3,300	600	800	9,000	9,000
CENTRAL (5).....	78,000	72,000	14,500	13,500	270,000	310,000
Arenac.....	5,500	6,300	1,000	1,000	3,000	4,000
Bay.....	3,000	2,700	500	500	3,000	4,000
Huron.....	45,000	44,000	8,500	8,000	900,000	1,100,000
Saginaw.....	10,500	11,000	1,800	1,900	8,000	9,000
Sanilac.....	9,000	10,000	1,700	1,800	6,000	8,000
Tuscola.....	20,000	22,000	4,000	3,800	390,000	265,000
EAST CENTRAL (6).....	93,000	96,000	17,500	17,000	1,310,000	1,390,000
Allegan.....	110,000	95,000	20,000	16,000	925,000	845,000
Berrien.....	29,000	26,000	5,200	5,000	52,000	72,000
Cass.....	225,000	195,000	45,000	40,000	5,000	5,000
Kalamazoo.....	34,000	36,000	6,500	7,200	355,000	300,000
Kent.....	21,000	18,000	3,800	3,300	8,000	13,000
Ottawa.....	100,000	83,000	19,000	15,500	1,640,000	1,600,000
Van Buren.....	66,000	67,000	12,500	12,000	135,000	135,000
SOUTHWEST (7).....	585,000	520,000	112,000	99,000	3,120,000	2,970,000
Barry.....	18,000	16,000	3,300	2,800	8,000	10,000
Branch.....	58,000	56,000	11,000	10,500	8,000	8,000
Calhoun.....	45,000	42,000	8,500	8,000	75,000	95,000
Clinton.....	25,000	25,000	4,700	5,000	10,000	10,000
Eaton.....	25,000	20,000	4,700	3,700	35,000	45,000
Hillsdale.....	55,000	45,000	10,000	8,500	80,000	70,000
Ingham.....	31,000	32,000	5,800	5,700	45,000	50,000
Ionia.....	40,000	42,000	7,500	7,500	1,035,000	1,040,000
Jackson.....	60,000	46,000	11,000	8,500	15,000	17,000
St. Joseph.....	46,000	43,000	9,000	8,500	45,000	40,000
Shiawassee.....	14,000	13,000	2,500	2,300	14,000	25,000
SOUTH CENTRAL (8).....	417,000	380,000	78,000	71,000	1,370,000	1,410,000
Genesee.....	12,000	12,000	2,200	2,300	8,000	8,000
Lapeer.....	8,500	9,000	1,600	1,800	5,000	9,000
Lenawee.....	40,000	44,000	7,500	8,000	20,000	20,000
Livingston.....	6,000	7,000	1,100	1,200	5,000	5,000
Macomb.....	6,500	8,000	1,200	1,400	5,000	5,000
Monroe.....	20,000	17,000	3,700	3,000	55,000	70,000
Oakland.....	1,500	1,800	300	300	2,000	2,000
St. Clair.....	4,800	5,400	900	1,100	65,000	80,000
Washtenaw.....	23,000	20,000	4,400	3,800	20,000	22,000
Wayne.....	700	800	100	100	5,000	6,000
SOUTHEAST (9).....	123,000	125,000	23,000	23,000	190,000	227,000
STATE.....	1,350,000	1,250,000	255,000	235,000	6,600,000	6,700,000

C O R N: Acreage, Yield, Production, 1987

D I S T R I C T & C O U N T Y	Planted For All Purposes	G R A I N			S I L A G E		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	Acres	Bushels		Acres	Tons	
Alger	—	—	—	—	—	—	—
Baraga	—	—	—	—	—	—	—
Chippewa	—	—	—	—	—	—	—
Delta	2,600	750	82.7	62,000	1,750	12.9	22,500
Dickinson	1,300	350	80.0	28,000	850	12.9	11,000
Gogebic	—	—	—	—	—	—	—
Houghton	—	—	—	—	—	—	—
Iron	—	—	—	—	—	—	—
Keweenaw	—	—	—	—	—	—	—
Luce	—	—	—	—	—	—	—
Mackinac	500	100	75.0	7,500	350	12.0	4,200
Marquette	—	—	—	—	—	—	—
Menominee	12,000	5,200	84.2	438,000	6,700	14.2	95,000
Ontonagon	—	—	—	—	—	—	—
Schoolcraft	—	—	—	—	—	—	—
UPPER PENINSULA (1)	18,500	7,000	82.9	580,000	11,000	13.6	150,000
Antrim	5,900	3,200	73.8	236,000	2,500	9.2	23,000
Benzie	1,400	650	53.8	35,000	700	11.4	8,000
Charlevoix	3,300	1,700	82.4	140,000	1,500	11.3	17,000
Emmet	2,300	750	80.0	60,000	1,500	10.0	15,000
Grand Traverse	8,200	6,250	52.8	330,000	1,700	9.4	16,000
Kalkaska	1,900	850	71.8	61,000	1,000	9.0	9,000
Leelanau	4,400	2,900	53.1	154,000	1,400	10.0	14,000
Manistee	2,500	1,300	54.6	71,000	1,000	9.0	9,000
Missaukee	11,700	3,200	73.8	236,000	8,200	10.4	85,000
Wexford	3,400	1,700	51.2	87,000	1,500	9.3	14,000
NORTHWEST (2)	45,000	22,500	62.7	1,410,000	21,000	10.0	210,000
Alcona	1,700	850	77.1	65,500	800	11.0	8,800
Alpena	6,100	3,150	84.1	265,000	2,800	13.6	38,000
Cheboygan	1,600	330	81.8	27,000	1,100	11.8	13,000
Crawford	—	—	—	—	—	—	—
Iosco	6,600	4,100	97.6	400,000	2,300	12.6	29,000
Montmorency	2,400	1,350	88.9	120,000	1,000	12.0	12,000
Ogemaw	9,900	4,200	89.3	375,000	5,500	11.3	62,000
Oscoda	950	340	79.4	27,000	600	13.3	8,000
Otsego	2,000	950	82.1	78,000	980	11.2	11,000
Presque Isle	3,200	1,200	91.7	110,000	1,900	14.7	28,000
Roscommon	—	—	—	—	—	—	—
NORTHEAST (3)	34,500	16,500	89.1	1,470,000	17,000	12.4	210,000
Lake	900	490	81.6	40,000	400	10.0	4,000
Mason	10,100	7,860	80.8	635,000	2,200	10.9	24,000
Muskegon	16,000	11,900	68.1	810,000	4,000	11.5	46,000
Newaygo	24,000	19,450	83.3	1,620,000	4,300	12.8	55,000
Oceana	11,000	7,800	68.6	535,000	3,100	10.0	31,000
WEST CENTRAL (4)	62,000	47,500	76.6	3,640,000	14,000	11.4	160,000
Clare	7,500	3,750	77.3	290,000	3,600	10.6	38,000
Gladwin	9,000	6,700	72.4	485,000	2,100	8.6	18,000
Gratiot	73,000	66,800	91.3	6,100,000	5,500	12.2	67,000
Isabella	43,000	31,100	78.1	2,430,000	11,500	11.5	132,000

C O R N: Acreage, Yield, Production, 1987

D I S T R I C T & C O U N T Y	Planted For All Purposes	G R A I N			S I L A G E		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	Acres	Bushels		Acres	Tons	
Macosta	14,500	11,400	78.5	895,000	2,900	11.0	32,000
Midland	19,500	17,800	91.0	1,620,000	1,400	10.7	15,000
Montcalm	45,000	40,100	87.3	3,500,000	4,500	10.4	47,000
Oscoda	8,500	3,850	72.7	280,000	4,500	9.1	41,000
CENTRAL (5)	220,000	181,500	86.0	15,600,000	36,000	10.8	390,000
Arenac	12,000	9,400	91.5	860,000	2,500	16.4	41,000
Bay	37,000	34,700	93.1	3,230,000	1,800	12.2	22,000
Huron	135,000	100,000	98.2	9,820,000	34,000	16.8	570,000
Saginaw	63,000	59,700	106.5	6,360,000	3,000	19.7	59,000
Sanilac	105,000	72,300	109.0	7,880,000	32,000	13.4	430,000
Tuscola	78,000	71,900	100.8	7,250,000	5,700	13.7	78,000
EAST CENTRAL (6)	430,000	348,000	101.7	35,400,000	79,000	15.2	1,200,000
Allegan	80,000	68,400	92.4	6,320,000	11,000	11.4	125,000
Berrien	39,000	37,500	98.7	3,700,000	1,200	14.2	17,000
Cass	73,000	70,900	94.1	6,670,000	1,600	11.3	18,000
Kalamazoo	54,000	49,400	110.3	5,450,000	4,200	11.9	50,000
Kent	47,000	38,500	91.2	3,510,000	8,100	13.0	105,000
Ottawa	43,000	33,700	89.0	3,000,000	9,000	13.9	125,000
Van Buren	44,000	42,600	102.1	4,350,000	900	11.1	10,000
SOUTHWEST (7)	330,000	341,000	96.8	33,000,000	36,000	12.5	450,000
Barry	38,000	31,000	87.1	2,700,000	6,700	17.2	115,000
Branch	92,000	86,600	115.2	9,980,000	4,900	19.4	95,000
Calhoun	67,000	61,600	79.1	4,870,000	4,900	12.0	59,000
Clinton	62,000	47,600	87.2	4,150,000	14,000	11.4	160,000
Eaton	53,000	48,300	96.3	4,650,000	4,500	14.0	63,000
Hillsdale	91,000	82,900	90.5	7,500,000	7,500	14.7	110,000
Ingham	58,000	49,100	79.2	3,890,000	8,500	12.4	105,000
Ionia	63,000	53,600	95.1	5,100,000	9,000	12.9	116,000
Jackson	67,000	55,700	71.5	3,980,000	10,500	12.9	135,000
St. Joseph	74,000	69,600	117.8	8,200,000	4,000	15.0	60,000
Shiawassee	45,000	38,000	78.4	2,980,000	6,500	12.6	82,000
SOUTH CENTRAL (8)	710,000	624,000	92.9	58,000,000	81,000	13.6	1,100,000
Genesee	40,000	36,200	84.0	3,040,000	3,400	10.9	37,000
Lapeer	50,000	42,200	106.4	4,490,000	7,500	13.6	102,000
Lenawee	102,000	95,500	98.3	9,390,000	6,000	11.2	67,000
Livingston	34,000	29,700	107.7	3,200,000	4,000	12.5	50,000
Macomb	16,000	14,400	107.6	1,550,000	1,500	10.0	15,000
Monroe	53,000	50,700	104.9	5,320,000	2,000	13.5	27,000
Oakland	12,500	11,800	110.2	1,300,000	500	9.0	4,500
St. Clair	33,000	29,300	120.1	3,520,000	3,500	11.7	41,000
Washtenaw	55,000	48,000	80.0	3,840,000	6,400	11.6	74,000
Wayne	4,500	4,200	119.0	500,000	200	12.5	2,500
SOUTHEAST (9)	400,000	362,000	99.9	36,150,000	35,000	12.0	420,000
STATE	2,300,000	1,950,000	95.0	185,250,000	330,000	13.0	4,290,000

C O R N: Acreage, Yield, Production, 1986

D I S T R I C T & C O U N T Y	Planted For All Purposes	G R A I N			S I L A G E		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	Acres	Bushels		Acres	Tons	
Alger	—	—	—	—	—	—	—
Baraga	—	—	—	—	—	—	—
Chippewa	—	—	—	—	—	—	—
Delta	—	—	—	—	—	—	—
Dickinson	1,600	450	80.0	36,000	1,100	10.9	12,000
Gogebic	—	—	—	—	—	—	—
Houghton	—	—	—	—	—	—	—
Iron	—	—	—	—	—	—	—
Keweenaw	—	—	—	—	—	—	—
Luce	—	—	—	—	—	—	—
Mackinac	500	80	86.3	6,900	400	11.0	4,400
Marquette	—	—	—	—	—	—	—
Menominee	11,500	4,100	81.0	332,000	7,100	10.7	76,000
Ontonagon	—	—	—	—	—	—	—
Schoolcraft	—	—	—	—	—	—	—
UPPER PENINSULA (1)	18,000	5,500	80.9	445,000	12,000	10.8	130,000
Antrim	6,100	3,450	85.5	295,000	2,400	10.8	26,000
Benzie	1,500	550	81.8	45,000	900	13.3	12,000
Charlevoix	4,700	2,500	86.0	215,000	2,000	12.6	25,200
Emmet	2,700	900	84.4	76,000	1,700	11.8	20,000
Grand Traverse	8,900	6,400	81.6	522,000	2,200	11.4	25,000
Kalkaska	2,200	1,600	85.0	136,000	500	12.0	6,000
Leelanau	4,800	3,100	84.8	263,000	1,500	13.4	20,100
Manistee	2,700	1,900	74.7	142,000	700	11.7	8,200
Missaukee	13,700	5,300	77.0	408,000	7,900	12.0	95,000
Wexford	4,700	3,300	78.5	259,000	1,200	10.4	12,500
NORTHWEST (2)	52,000	29,000	81.4	2,361,000	21,000	11.9	250,000
Alcona	1,800	800	75.0	60,000	900	12.8	11,500
Alpena	5,900	8,900	75.0	225,000	2,600	13.8	36,000
Cheboygan	1,500	450	82.2	37,000	1,000	13.5	13,500
Crawford	—	—	—	—	—	—	—
Iosco	8,400	5,550	86.1	478,000	2,400	12.5	30,000
Montmorency	2,400	1,250	76.0	95,000	1,000	11.0	11,000
Ogemaw	10,500	4,800	81.9	393,000	5,200	14.1	73,500
Oscoda	1,350	420	80.0	33,600	880	13.6	12,000
Otsego	1,700	600	86.7	52,000	1,000	11.8	11,750
Presque Isle	3,400	1,100	80.0	88,000	2,000	13.9	27,500
Roscommon	—	—	—	—	—	—	—
NORTHEAST (3)	37,000	18,000	81.3	1,464,000	17,000	13.4	227,000
Lake	1,200	750	80.0	60,000	400	12.5	5,000
Mason	11,800	9,100	86.8	790,000	2,500	10.4	26,000
Muskegon	22,000	16,950	94.5	1,602,000	4,600	12.6	58,000
Newaygo	26,000	20,100	97.0	1,950,000	4,900	11.2	55,000
Oceana	12,000	9,100	94.5	860,000	2,600	11.2	29,000
WEST CENTRAL (4)	73,000	56,000	94.0	5,262,000	15,000	11.5	173,000
Clare	8,000	4,100	76.8	315,000	3,700	13.8	51,000
Gladwin	10,500	8,350	80.0	668,000	1,900	12.6	24,000
Gratiot	84,000	76,800	110.7	8,498,000	6,000	15.0	90,000
Isabella	58,000	45,000	94.2	4,237,000	12,000	13.8	165,000

C O R N: Acreage, Yield, Production, 1986

D I S T R I C T & C O U N T Y	Planted For All Purposes	G R A I N			S I L A G E		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	Acres	Bushels		Acres	Tons	
Macosta	19,000	15,000	90.2	1,353,000	3,300	12.7	42,000
Midland	27,000	24,300	110.5	2,685,000	1,700	14.7	25,000
Montcalm	64,000	58,100	97.2	5,645,000	4,400	13.6	60,000
Osceola	9,500	4,850	82.1	398,000	4,000	13.3	53,000
CENTRAL (5)	280,000	236,500	100.6	23,799,000	37,000	13.8	510,000
Arenac	19,000	16,400	97.6	1,600,000	2,400	12.1	29,000
Bay	47,000	45,500	103.3	4,700,000	1,100	13.6	15,000
Huron	150,000	126,300	108.5	13,700,000	22,500	15.1	340,000
Saginaw	76,000	69,500	106.5	7,400,000	3,000	12.0	36,000
Sanilac	125,000	98,500	116.0	11,426,000	25,500	14.9	380,000
Tuscola	103,000	96,800	104.6	10,128,000	5,500	14.5	80,000
EAST CENTRAL (6)	520,000	453,000	108.1	48,954,000	60,000	14.7	880,000
Allegan	95,000	82,200	95.7	7,867,000	11,500	15.7	180,000
Berrien	47,000	45,500	91.6	4,167,000	1,000	14.0	14,000
Cass	72,000	69,700	105.6	7,361,000	1,900	13.7	26,000
Kalamazoo	59,000	54,600	116.8	6,380,000	4,100	14.4	59,000
Kent	59,000	50,000	105.1	5,255,000	8,500	12.4	105,000
Ottawa	54,000	43,600	94.0	4,098,000	9,800	13.3	130,000
Van Buren	44,000	42,400	85.6	3,628,000	1,200	13.3	16,000
SOUTHWEST (7)	430,000	388,000	99.9	38,756,000	38,000	13.9	530,000
Barry	50,000	44,200	98.2	4,342,000	5,600	12.9	72,000
Branch	95,000	90,700	118.6	10,753,000	4,000	14.0	56,000
Calhoun	90,000	84,300	104.9	8,842,000	5,400	12.0	65,000
Clinton	70,000	58,000	109.2	6,334,000	11,000	13.6	150,000
Eaton	75,000	70,200	109.1	7,660,000	4,500	13.3	60,000
Hillsdale	103,000	95,600	111.1	10,620,000	7,000	15.7	110,000
Ingham	76,000	67,700	112.5	7,615,000	8,000	15.0	120,000
Ionia	74,000	63,700	104.8	6,676,000	10,000	12.2	122,000
Jackson	77,000	68,200	101.8	6,940,000	8,500	12.6	107,000
St. Joseph	105,000	100,600	105.0	10,563,000	4,000	12.5	50,000
Shiawassee	55,000	48,800	97.4	4,755,000	6,000	13.0	78,000
SOUTH CENTRAL (8)	870,000	792,000	107.4	85,100,000	74,000	13.4	990,000
Genesee	52,000	46,900	96.7	4,537,000	4,500	14.4	65,000
Lapeer	64,000	52,400	99.9	5,233,000	11,000	13.5	149,000
Lenawee	128,000	119,800	119.8	14,349,000	8,000	15.5	124,000
Livingston	40,000	34,900	104.0	3,629,000	5,000	13.0	65,000
Maconb	19,000	16,450	101.1	1,663,000	2,500	12.6	31,500
Monroe	82,000	79,300	116.5	9,240,000	2,500	13.2	33,000
Oakland	15,000	14,150	101.4	1,435,000	800	11.3	9,000
St. Clair	45,000	39,400	98.5	3,879,000	5,500	12.7	70,000
Washtenaw	69,000	62,900	103.0	6,477,000	6,000	13.5	81,000
Wayne	6,000	5,800	115.0	667,000	200	12.5	2,500
SOUTHEAST (9)	220,000	472,000	108.3	51,109,000	46,000	13.7	630,000
STATE	2,800,000	2,450,000	105.0	257,250,000	320,000	13.5	4,320,000

W H E A T: Acreage, Yield, Production, 1986-87

D I S T R I C T & C O U N T Y	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Alger	—	—	—	—	50	40	30.0	1,200
Baraga	—	—	—	—	—	—	—	—
Chippewa	250	220	38.6	8,500	450	400	36.0	14,400
Delta	160	150	36.7	5,500	310	300	33.3	10,000
Dickinson	—	—	—	—	—	—	—	—
Gogebic	—	—	—	—	—	—	—	—
Houghton	—	—	—	—	—	—	—	—
Iron	130	120	30.0	3,600	150	150	26.7	4,000
Keweenaw	—	—	—	—	—	—	—	—
Luce	80	70	31.4	2,200	160	150	30.0	4,500
Mackinac	130	120	31.7	3,800	160	150	30.0	4,500
Marquette	—	—	—	—	—	—	—	—
Menominee	60	50	34.0	1,700	—	—	—	—
Ontonagon	50	50	35.0	1,750	70	60	31.7	1,900
Schoolcraft	90	80	32.5	2,600	80	80	30.0	2,400
UPPER PENINSULA (1)	1,000	900	34.4	31,000	1,500	1,400	32.1	45,000
Antrim	800	750	33.3	25,000	1,500	1,200	41.7	50,000
Benzie	100	90	33.3	3,000	150	100	42.0	4,200
Charlevoix	150	130	34.6	4,500	150	100	42.0	4,200
Emmet	50	40	37.5	1,500	50	50	42.0	2,100
Grand Traverse	1,400	1,250	35.2	44,000	1,500	1,350	45.6	61,500
Kalkaska	600	550	34.5	19,000	700	600	43.3	26,000
Leelanau	250	200	35.0	7,000	300	250	44.0	11,000
Manistee	350	300	30.0	9,000	550	450	40.0	18,000
Missaukee	500	440	36.4	16,000	650	450	44.4	20,000
Wexford	800	650	32.3	21,000	1,450	950	45.3	43,000
NORTHWEST (2)	5,000	4,400	34.1	150,000	7,000	5,500	43.6	240,000
Alcona	600	450	34.4	15,500	900	800	53.8	43,000
Alpena	1,450	1,150	33.5	38,500	2,550	2,300	43.5	100,000
Cheboygan	300	240	39.6	9,500	750	700	40.0	28,000
Crawford	—	—	—	—	—	—	—	—
Iosco	1,350	1,100	37.3	41,000	2,100	1,800	53.9	97,000
Montmorency	500	400	33.8	13,500	700	500	42.8	21,400
Ogemaw	500	390	35.9	14,000	1,250	1,100	52.7	58,000
Oscoda	50	40	37.5	1,500	50	40	45.0	1,800
Otsego	400	290	34.5	10,000	730	650	43.1	28,000
Presque Isle	1,300	900	38.9	35,000	1,900	1,650	42.4	70,000
Roscommon	50	40	37.5	1,500	70	60	46.7	2,800
NORTHEAST (3)	6,500	5,000	36.0	180,000	11,000	9,600	46.9	450,000
Lake	100	100	35.0	3,500	170	150	40.0	6,000
Mason	1,600	1,300	39.2	51,000	3,600	3,400	50.0	170,000
Muskegon	900	750	44.0	33,000	2,000	1,800	46.7	84,000
Newaygo	1,000	800	40.6	32,500	2,000	1,650	39.4	65,000
Oceana	900	750	38.7	29,000	1,730	1,500	40.0	60,000
WEST CENTRAL (4)	4,500	3,700	40.3	149,000	9,500	8,500	45.3	385,000
Clare	800	750	32.0	24,000	1,100	1,000	37.0	37,000
Gladwin	1,800	1,650	45.5	75,000	2,700	2,500	36.4	91,000
Gratiot	11,000	10,000	49.5	495,000	24,000	17,000	40.3	685,000
Isabella	10,000	8,700	46.0	400,000	15,000	11,000	43.6	480,000

W H E A T: Acreage, Yield, Production, 1986-87

D I S T R I C T & C O U N T Y	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Mecosta	2,500	2,000	29.0	58,000	3,700	3,000	41.7	125,000
Midland	3,500	3,100	46.5	144,000	3,200	2,500	35.2	88,000
Montcalm	14,000	12,500	37.1	464,000	24,000	22,000	37.7	830,000
Osceola	400	300	33.3	10,000	1,300	1,000	44.0	44,000
CENTRAL (5)	44,000	39,000	42.8	1,670,000	75,000	60,000	39.7	2,380,000
Arenac	4,500	4,000	62.5	250,000	8,000	6,000	47.5	285,000
Bay	6,000	5,500	51.8	285,000	14,000	10,000	50.0	500,000
Huron	24,500	22,000	58.2	1,280,000	46,000	43,000	59.9	2,575,000
Saginaw	26,000	23,000	65.2	1,500,000	34,000	30,000	54.3	1,630,000
Sanilac	17,000	14,500	46.2	670,000	45,000	42,000	54.4	2,285,000
Tuscola	20,000	18,000	53.1	955,000	33,000	29,000	53.8	1,560,000
EAST CENTRAL (6)	98,000	87,000	56.8	4,940,000	180,000	160,000	55.2	8,835,000
Allegan	9,000	8,100	44.4	360,000	14,000	12,000	37.5	450,000
Berrien	6,500	6,000	43.0	258,000	9,500	9,000	38.9	350,000
Cass	8,000	7,500	46.7	350,000	14,500	14,000	37.1	520,000
Kalamazoo	12,500	11,500	38.7	445,000	14,000	13,000	33.1	430,000
Kent	7,500	6,800	44.6	303,000	10,000	9,500	37.4	355,000
Ottawa	3,000	2,400	41.7	100,000	4,300	4,000	40.0	160,000
Van Buren	3,500	2,700	36.7	99,000	3,700	3,500	32.9	115,000
SOUTHWEST (7)	50,000	45,000	42.6	1,915,000	70,000	65,000	36.6	2,380,000
Barry	10,500	9,300	37.6	350,000	16,000	15,000	32.3	485,000
Branch	10,500	9,700	52.6	510,000	15,500	15,000	37.7	565,000
Calhoun	15,000	13,800	44.2	610,000	25,000	24,000	37.1	890,000
Clinton	18,000	16,200	49.7	805,000	39,000	35,000	35.4	1,240,000
Eaton	25,000	22,600	47.1	1,065,000	37,000	35,000	37.4	1,310,000
Hillsdale	12,000	10,800	49.5	535,000	18,000	17,000	45.3	770,000
Ingham	14,000	12,700	54.2	688,000	21,000	20,000	42.5	850,000
Ionia	22,000	19,500	43.7	852,000	31,000	28,000	37.9	1,060,000
Jackson	10,500	9,500	41.1	390,000	14,500	14,000	49.3	690,000
St. Joseph	7,500	6,900	42.8	295,000	10,500	10,000	35.0	350,000
Shiawassee	11,000	9,000	45.0	405,000	22,500	22,000	41.4	910,000
SOUTH CENTRAL (8)	156,000	140,000	46.5	6,505,000	250,000	235,000	38.8	9,120,000
Genesee	9,000	7,500	35.3	265,000	11,000	10,000	43.5	435,000
Lapeer	9,500	7,800	39.0	304,000	15,500	14,000	50.7	710,000
Lenawee	23,000	21,000	55.2	1,160,000	42,000	39,000	53.1	2,070,000
Livingston	6,500	5,800	49.1	285,000	9,300	7,000	37.9	265,000
Macomb	3,000	2,400	43.3	104,000	3,700	3,500	43.7	153,000
Monroe	10,000	8,800	59.1	520,000	26,500	25,000	52.0	1,300,000
Oakland	2,200	2,000	44.5	89,000	3,200	3,000	50.0	150,000
St. Clair	8,000	7,200	49.0	353,000	13,500	13,000	49.6	645,000
Washtenaw	13,000	11,800	46.5	549,000	19,500	19,000	50.5	960,000
Wayne	800	700	44.3	31,000	1,800	1,500	51.3	77,000
SOUTHEAST (9)	85,000	75,000	48.8	3,660,000	146,000	135,000	50.1	6,765,000
STATE	450,000	400,000	48.0	19,200,000	750,000	680,000	45.0	30,600,000

SOYBEANS: Acreage, Yield, Production, 1986-87

DISTRICT & COUNTY	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Alger	—	—	—	—	—	—	—	—
Baraga	—	—	—	—	—	—	—	—
Chippewa	—	—	—	—	—	—	—	—
Delta	200	180	30.0	5,400	200	180	28.3	5,100
Dickinson	—	—	—	—	—	—	—	—
Gogebic	—	—	—	—	—	—	—	—
Houghton	—	—	—	—	—	—	—	—
Iron	—	—	—	—	—	—	—	—
Keweenaw	—	—	—	—	—	—	—	—
Luce	—	—	—	—	—	—	—	—
Mackinac	—	—	—	—	—	—	—	—
Marquette	—	—	—	—	—	—	—	—
Menominee	—	—	—	—	—	—	—	—
Ontonagon	—	—	—	—	—	—	—	—
Schoolcraft	—	—	—	—	—	—	—	—
UPPER PENINSULA (1)	300	280	30.4	8,500	300	270	28.1	7,600
Antrim	—	—	—	—	—	—	—	—
Benzie	—	—	—	—	—	—	—	—
Charlevoix	—	—	—	—	—	—	—	—
Emmet	—	—	—	—	—	—	—	—
Grand Traverse	60	60	31.7	1,900	60	60	30.0	1,800
Kalkaska	80	70	31.4	2,200	80	80	30.0	2,400
Leelanau	—	—	—	—	—	—	—	—
Manistee	200	190	32.1	6,100	200	180	30.0	5,400
Missaukee	—	—	—	—	—	—	—	—
Wexford	—	—	—	—	—	—	—	—
NORTHWEST (2)	400	380	31.6	12,000	400	380	30.0	11,400
Alcona	—	—	—	—	50	50	32.0	1,600
Alpena	200	190	30.0	5,700	100	90	30.0	2,700
Cheboygan	—	—	—	—	50	50	32.0	1,600
Crawford	—	—	—	—	—	—	—	—
Iosco	200	190	31.1	5,900	150	130	31.5	4,100
Montmorency	—	—	—	—	100	90	30.0	2,700
Ogemaw	90	90	28.9	2,600	100	90	30.0	2,700
Oscoda	—	—	—	—	—	—	—	—
Otsego	—	—	—	—	—	—	—	—
Presque Isle	—	—	—	—	50	50	32.0	1,600
Roscommon	—	—	—	—	—	—	—	—
NORTHEAST (3)	500	480	30.2	14,500	600	550	30.9	17,000
Lake	—	—	—	—	—	—	—	—
Mason	200	190	32.1	6,100	300	280	30.4	8,500
Muskegon	1,300	1,270	34.0	43,200	1,100	1,050	30.0	31,500
Newaygo	200	200	32.5	6,500	200	180	29.4	5,300
Oceana	90	90	32.2	2,900	90	80	30.0	2,400
WEST CENTRAL (4)	1,800	1,760	33.5	59,000	1,700	1,600	30.0	48,000
Clare	300	300	30.0	9,000	200	170	25.3	4,300
Gladwin	1,500	1,500	26.7	40,000	1,600	1,400	24.3	34,000
Gratiot	47,000	46,800	38.0	1,777,000	43,000	37,000	32.1	1,188,000
Isabella	13,500	13,400	33.6	450,000	12,000	11,200	28.0	314,000

S O Y B E A N S: Acreage, Yield, Production, 1986-87

D I S T R I C T & C O U N T Y	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Macosta	200	200	30.0	6,000	100	90	27.8	2,500
Midland	14,500	14,500	37.2	540,000	15,000	14,250	31.9	455,000
Montcalm	9,900	9,800	34.2	335,000	8,000	7,800	26.9	210,000
Osceola	100	100	30.0	3,000	100	90	24.4	2,200
CENTRAL (5)	87,000	86,600	36.5	3,160,000	80,000	72,000	30.7	2,210,000
Arenac	8,000	7,950	33.1	263,000	8,500	8,300	28.3	235,000
Bay	19,000	18,700	39.0	730,000	16,000	15,500	27.1	420,000
Huron	6,000	5,950	30.3	180,000	4,500	4,200	28.6	120,000
Saginaw	115,000	114,000	37.0	4,220,000	115,000	103,000	28.7	2,956,000
Sanilac	47,000	46,600	36.6	1,707,000	34,000	32,000	32.7	1,045,000
Tuscola	20,000	19,800	35.9	710,000	22,000	21,000	32.4	680,000
EAST CENTRAL (6)	215,000	213,000	36.7	7,810,000	200,000	184,000	29.7	5,456,000
Allegan	8,500	8,400	37.3	313,000	5,000	4,800	30.2	145,000
Berrien	27,500	27,300	38.1	1,040,000	25,000	24,700	30.4	750,000
Cass	29,000	28,800	37.8	1,090,000	27,000	24,700	29.8	735,000
Kalamazoo	25,500	25,300	42.5	1,075,000	23,000	22,800	33.4	761,000
Kent	3,500	3,500	30.0	105,000	3,000	2,600	32.7	85,000
Ottawa	800	750	29.3	22,000	500	400	32.5	13,000
Van Buren	10,200	9,950	31.7	315,000	8,500	8,200	32.3	265,000
SOUTHWEST (7)	105,000	104,000	38.1	3,960,000	92,000	88,200	31.2	2,754,000
Barry	12,000	11,900	32.8	390,000	10,000	9,800	29.5	289,000
Branch	40,000	39,800	33.8	1,345,000	40,000	39,800	33.3	1,326,000
Calhoun	25,000	24,800	31.3	775,000	27,000	26,800	30.1	806,000
Clinton	61,000	60,000	34.9	2,095,000	52,000	50,200	29.9	1,500,000
Eaton	30,000	29,800	36.7	1,095,000	22,000	21,900	29.9	654,000
Hillsdale	42,000	41,800	30.1	1,260,000	36,000	35,700	30.6	1,094,000
Ingham	26,000	25,800	31.6	815,000	19,000	18,900	29.7	561,000
Ionia	26,500	26,200	36.8	965,000	19,000	18,300	30.8	563,000
Jackson	7,500	6,500	31.5	205,000	7,000	6,800	30.9	210,000
St. Joseph	35,000	34,800	39.7	1,380,000	33,000	32,800	33.5	1,099,000
Shiawassee	55,000	54,600	31.0	1,695,000	50,000	47,000	26.5	1,247,000
SOUTH CENTRAL (8)	360,000	356,000	33.8	12,020,000	315,000	308,000	30.4	9,349,000
Genesee	26,000	25,900	30.5	790,000	13,000	12,500	24.6	308,000
Lapeer	8,500	8,300	33.7	280,000	6,000	5,700	27.7	158,000
Lenawee	120,000	119,200	32.9	3,920,000	105,000	103,500	38.0	3,930,000
Livingston	6,500	6,400	36.7	235,000	5,500	5,320	29.7	158,000
Macomb	24,000	23,900	36.2	865,000	20,000	19,500	29.7	580,000
Monroe	82,000	81,500	33.6	2,740,000	80,000	79,500	31.8	2,527,000
Oakland	400	400	37.5	15,000	500	480	27.1	13,000
St. Clair	34,000	33,500	39.6	1,325,000	25,000	24,000	26.0	625,000
Washtenaw	22,000	21,900	32.6	715,000	18,000	17,700	27.4	485,000
Wayne	6,600	6,500	34.0	221,000	7,000	6,800	28.4	193,000
SOUTHEAST (9)	330,000	327,500	33.9	11,106,000	280,000	275,000	32.6	8,977,000
STATE	1,100,000	1,090,000	35.0	38,150,000	970,000	930,000	31.0	28,830,000

O A T S: Acreage, Yield, Production, 1986-87

DISTRICT & COUNTY	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Alger	200	150	41.3	6,200	150	140	51.4	7,200
Baraga	400	360	40.3	14,500	500	460	48.9	22,500
Chippewa	3,900	3,600	48.6	175,000	3,700	3,500	48.6	170,000
Delta	3,000	2,700	54.0	145,700	2,900	2,800	55.0	154,000
Dickinson	700	600	48.0	28,800	500	460	52.0	23,900
Gogebic	100	90	43.3	3,900	150	140	50.0	7,000
Houghton	1,500	1,350	44.6	60,200	1,600	1,500	45.3	68,000
Iron	700	600	46.5	27,900	700	650	50.0	32,500
Keweenaw	—	—	—	—	—	—	—	—
Luce	300	250	43.6	10,900	200	180	47.8	8,600
Mackinac	900	800	42.8	34,200	900	800	47.0	37,600
Marquette	300	250	40.8	10,200	300	270	51.1	13,800
Menominee	3,200	2,800	51.0	142,900	3,700	3,500	50.0	175,000
Ontonagon	800	700	40.7	28,500	1,000	950	47.4	45,000
Schoolcraft	500	450	46.9	21,100	700	650	46.0	29,900
UPPER PENINSULA (1)	16,500	14,700	48.3	710,000	17,000	16,000	49.7	795,000
Antrim	1,300	1,050	37.2	39,100	1,700	1,400	60.7	85,000
Benzie	50	40	32.5	1,300	50	40	52.5	2,100
Charlevoix	700	500	49.4	24,700	600	500	60.8	30,400
Emmet	1,100	900	43.8	39,400	1,300	1,050	66.7	70,000
Grand Traverse	1,400	1,150	37.3	42,900	1,300	1,050	54.3	57,000
Kalkaska	250	200	33.5	6,700	200	160	53.1	8,500
Leelanau	600	460	32.8	15,100	650	550	61.8	34,000
Manistee	300	250	30.0	7,500	300	250	48.0	12,000
Missaukee	3,300	2,300	38.4	88,400	3,800	3,100	61.9	192,000
Wexford	1,000	750	33.2	24,900	1,100	900	54.4	49,000
NORTHWEST (2)	10,000	7,600	38.2	290,000	11,000	9,000	60.0	540,000
Alcona	700	600	44.8	26,900	1,300	1,050	61.0	64,000
Alpena	7,000	6,400	42.2	270,000	6,200	5,000	58.0	290,000
Cheboygan	700	640	51.3	32,800	800	600	57.5	34,500
Crawford	50	40	40.0	1,600	50	40	57.5	2,300
Iosco	1,600	1,400	52.1	72,900	1,700	1,300	63.1	82,000
Montmorency	1,300	1,200	35.8	43,000	1,400	1,200	52.5	63,000
Ogemaw	3,400	2,700	48.9	131,900	3,700	3,100	58.1	180,000
Oscoda	100	80	48.8	3,900	100	70	57.1	4,000
Otsego	1,500	1,300	31.1	40,400	1,400	1,200	56.7	68,000
Presque Isle	4,600	4,100	42.7	175,000	5,300	4,400	56.8	250,000
Roscommon	50	40	40.0	1,600	50	40	55.0	2,200
NORTHEAST (3)	21,000	18,500	43.2	800,000	22,000	18,000	57.8	1,040,000
Lake	600	400	46.5	18,600	600	500	54.4	27,200
Mason	2,900	2,100	53.3	112,000	3,000	2,800	63.9	179,000
Muskegon	1,400	900	49.3	44,400	1,400	1,200	58.6	70,300
Newaygo	3,200	2,300	47.8	110,000	2,600	2,300	47.0	108,000
Oceana	1,400	1,000	45.0	45,000	1,400	1,200	62.9	75,500
WEST CENTRAL (4)	9,500	6,700	49.3	330,000	9,000	8,000	57.5	460,000
Clare	2,100	1,700	56.6	96,200	2,200	1,900	60.0	114,000
Gladwin	3,500	3,100	46.8	145,100	3,800	3,500	54.3	190,000
Gratiot	5,000	4,000	55.5	222,100	4,800	4,100	69.8	286,000
Isabella	8,500	7,100	55.1	391,400	8,300	6,500	59.7	388,000

O A T S: Acreage, Yield, Production, 1986-87

DISTRICT & COUNTY	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Macosta	3,300	2,600	40.7	105,800	3,700	3,000	63.0	189,000
Midland	1,900	1,600	66.8	106,800	1,700	1,500	62.0	93,000
Montcalm	9,000	8,100	55.5	449,200	8,500	7,000	64.7	453,000
Osceola	2,700	2,300	40.6	93,400	4,000	3,500	59.4	208,000
CENTRAL (5)	36,000	30,500	52.8	1,610,000	37,000	31,000	62.0	1,921,000
Arenac	4,400	3,400	68.4	232,600	3,400	2,900	58.3	169,000
Bay	2,000	1,600	68.6	109,800	1,100	900	67.8	61,000
Huron	23,500	20,500	73.8	1,512,000	17,500	14,500	72.6	1,052,000
Saginaw	5,500	4,500	79.8	359,100	8,000	5,700	70.4	401,000
Sanilac	36,600	30,000	64.9	1,946,400	35,000	30,500	69.3	2,114,000
Tuscola	11,000	9,500	70.5	670,100	11,000	8,500	71.8	610,000
EAST CENTRAL (6)	83,000	69,500	69.5	4,830,000	76,000	63,000	70.0	4,407,000
Allegan	7,600	5,600	50.8	284,600	5,500	4,800	64.8	311,000
Berrien	1,400	1,100	50.0	55,000	900	700	64.3	45,000
Cass	2,800	2,400	51.6	123,800	2,300	2,000	60.0	120,000
Kalamazoo	3,300	2,700	42.4	114,500	3,300	2,500	74.0	185,000
Kent	8,100	6,800	51.8	352,400	8,100	7,500	71.3	535,000
Ottawa	6,000	4,500	40.5	182,400	5,100	4,000	61.3	245,000
Van Buren	1,800	1,400	40.9	57,300	1,800	1,500	60.0	90,000
SOUTHWEST (7)	31,000	24,500	47.8	1,170,000	27,000	23,000	66.6	1,531,000
Barry	4,500	3,800	44.8	170,200	4,500	3,500	65.7	230,000
Branch	3,200	2,700	51.6	139,300	3,900	3,000	70.7	212,000
Calhoun	9,200	8,200	44.5	365,000	7,500	5,500	71.1	391,000
Clinton	11,000	9,500	57.6	547,600	9,000	7,000	61.1	428,000
Eaton	5,300	4,500	56.3	253,400	3,600	3,000	61.0	183,000
Hillsdale	6,200	5,600	63.6	356,000	7,000	5,000	62.0	310,000
Ingham	4,000	3,500	49.2	172,300	4,500	3,200	75.3	241,000
Ionia	12,100	11,100	53.1	589,400	11,500	8,500	72.0	612,000
Jackson	6,300	5,500	39.8	219,100	7,000	5,500	56.2	309,000
St. Joseph	1,800	1,500	42.2	63,300	2,000	1,500	74.0	111,000
Shiawassee	13,400	12,100	64.0	774,400	12,500	8,300	63.0	523,000
SOUTH CENTRAL (8)	77,000	68,000	53.7	3,650,000	73,000	54,000	65.7	3,550,000
Genesee	8,400	7,700	58.1	447,700	7,800	6,500	57.8	376,000
Lapeer	10,600	9,400	71.6	672,600	10,700	9,000	58.4	526,000
Lenawee	5,200	4,800	59.9	287,600	6,000	4,500	59.1	266,000
Livingston	4,600	4,200	58.3	245,000	3,500	3,000	60.0	180,000
Macomb	3,800	3,300	60.0	198,000	3,500	2,900	58.6	170,000
Monroe	5,000	4,700	65.5	308,000	3,000	2,500	64.0	160,000
Oakland	1,500	1,450	54.7	79,300	1,700	1,450	57.9	84,000
St. Clair	10,600	9,700	66.0	639,900	10,200	8,000	50.5	404,000
Washtenaw	16,000	14,500	56.4	817,900	11,400	10,000	59.2	592,000
Wayne	300	250	56.0	14,000	200	150	53.3	8,000
SOUTHEAST (9)	66,000	60,000	61.8	3,710,000	58,000	48,000	57.6	2,766,000
STATE	350,000	300,000	57.0	17,100,000	330,000	270,000	63.0	17,010,000

D R Y B E A N S: Acreage, Yield, Production, 1986-87

D I S T R I C T & C O U N T Y	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Pounds	Cwt.	Acres		Pounds	Cwt.
UPPER PENINSULA (1)	2,200	2,100	1,240.0	26,000	1,900	1,850	810.0	15,000
NORTHWEST (2)	2,600	2,470	970.0	24,000	1,900	1,800	1,500.0	27,000
NORTHEAST (3)	15,000	14,300	1,160.0	166,000	11,000	9,900	810.0	80,000
WEST CENTRAL (4)	400	380	1,050.0	4,000	400	350	860.0	3,000
Clare	200	170	1,000.0	1,700	200	150	1,000.0	1,500
Gladwin	2,500	2,350	1,060.0	25,000	2,700	2,400	750.0	18,000
Gratiot	54,000	46,000	1,170.0	540,000	52,000	35,500	720.0	255,000
Isabella	16,000	12,500	930.0	116,000	15,000	12,000	750.0	90,000
Mecosta	4,200	3,500	1,270.0	44,500	3,500	2,400	1,040.0	25,000
Midland	15,000	13,900	1,080.0	150,000	14,000	11,000	770.0	85,000
Montcalm	23,000	19,500	1,090.0	212,000	19,500	14,500	860.0	125,000
Osceola	—	—	—	—	—	—	—	—
CENTRAL (5)	115,000	98,000	1,110.0	1,090,000	107,000	78,000	770.0	600,000
Arenac	13,000	12,900	1,200.0	155,000	14,000	9,000	780.0	70,000
Bay	43,000	41,600	1,210.0	505,000	40,000	30,000	730.0	220,000
Huron	96,000	95,000	1,460.0	1,390,000	93,000	75,000	870.0	650,000
Saginaw	29,000	27,000	1,310.0	355,000	42,000	32,000	810.0	260,000
Sanilac	30,000	29,500	1,250.0	370,000	30,000	16,000	880.0	140,000
Tuscola	60,000	59,000	1,270.0	750,000	67,000	53,000	740.0	390,000
EAST CENTRAL (6)	271,000	265,000	1,330.0	3,525,000	286,000	215,000	800.0	1,730,000
SOUTHWEST (7)	2,800	2,650	1,280.0	34,000	2,300	2,100	1,190.0	25,000
Barry	1,500	1,300	1,080.0	14,000	2,500	1,000	900.0	9,000
Branch	—	—	—	—	—	—	—	—
Calhoun	—	—	—	—	200	60	1,000.0	600
Clinton	10,500	9,600	1,010.0	97,000	14,500	8,600	810.0	70,000
Eaton	16,500	15,800	1,080.0	170,000	18,000	5,000	880.0	44,000
Hillsdale	—	—	—	—	—	—	—	—
Ingham	2,500	2,100	1,190.0	25,000	2,500	1,800	890.0	16,000
Ionia	11,500	9,500	1,280.0	122,000	11,000	3,600	780.0	28,000
Jackson	400	320	1,000.0	3,200	—	—	—	—
St. Joseph	—	—	—	—	—	—	—	—
Shiawassee	3,800	3,100	990.0	30,800	6,000	4,700	640.0	30,000
SOUTH CENTRAL (8)	47,000	42,000	1,110.0	465,000	55,000	25,000	800.0	200,000
Genesee	1,400	1,200	1,490.0	17,900	1,800	1,300	540.0	7,000
Lapeer	7,600	7,400	1,680.0	124,000	8,500	2,500	720.0	18,000
Lenawee	800	720	1,670.0	12,000	300	250	800.0	2,000
Livingston	300	270	1,040.0	2,800	250	200	750.0	1,500
Macomb	800	720	1,530.0	11,000	900	700	600.0	4,200
Monroe	700	630	1,480.0	9,300	200	150	670.0	1,000
Oakland	—	—	—	—	200	180	560.0	1,000
St. Clair	2,200	2,000	1,550.0	31,000	2,300	700	730.0	5,100
Washtenaw	—	—	—	—	—	—	—	—
Wayne	—	—	—	—	—	—	—	—
SOUTHEAST (9)	14,000	13,100	1,600.0	210,000	14,500	6,000	670.0	40,000
STATE	470,000	440,000	1,260.0	5,544,000	480,000	340,000	800.0	2,720,000

SUGAR BEETS: Acreage, Yield, Production, 1986-87

DISTRICT & COUNTY	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Tons		Acres		Tons	
UPPER PENINSULA (1)	—	—	—	—	—	—	—	—
NORTHWEST (2)	—	—	—	—	—	—	—	—
NORTHEAST (3)	200	200	17.5	3,500	250	240	15.0	3,600
WEST CENTRAL (4)	—	—	—	—	—	—	—	—
Clare	—	—	—	—	—	—	—	—
Gladwin	700	700	20.3	14,200	700	600	19.3	11,600
Gratiot	14,100	13,900	21.6	300,300	13,200	11,050	20.7	229,000
Isabella	700	700	18.7	13,100	600	500	16.6	8,300
Macosta	—	—	—	—	—	—	—	—
Midland	3,000	2,950	19.5	57,400	3,000	2,200	19.0	41,700
Montcalm	—	—	—	—	—	—	—	—
Osceola	—	—	—	—	—	—	—	—
CENTRAL (5)	18,700	18,450	21.0	388,000	17,700	14,500	20.3	294,000
Arenac	5,000	4,900	18.9	92,500	4,200	3,900	18.5	72,000
Bay	23,000	22,600	21.3	481,000	22,800	16,800	20.3	341,000
Huron	28,000	27,700	20.5	568,000	26,900	23,000	21.3	490,000
Saginaw	17,400	17,100	21.8	372,000	16,100	11,900	21.8	260,000
Sanilac	12,500	12,200	19.3	235,500	12,000	6,400	21.6	138,000
Tuscola	31,600	31,300	20.4	640,000	29,200	25,800	21.1	545,000
EAST CENTRAL (6)	117,500	115,800	20.6	2,389,000	111,200	87,800	21.0	1,846,000
SOUTHWEST (7)	—	—	—	—	—	—	—	—
Barry	—	—	—	—	—	—	—	—
Branch	—	—	—	—	—	—	—	—
Calhoun	—	—	—	—	—	—	—	—
Clinton	—	—	—	—	—	—	—	—
Eaton	—	—	—	—	—	—	—	—
Hillsdale	—	—	—	—	—	—	—	—
Ingham	—	—	—	—	—	—	—	—
Ionia	—	—	—	—	—	—	—	—
Jackson	—	—	—	—	—	—	—	—
St. Joseph	—	—	—	—	—	—	—	—
Shiawassee	—	—	—	—	—	—	—	—
SOUTH CENTRAL (8)	350	350	21.4	7,500	400	320	20.0	6,400
Genesee	—	—	—	—	—	—	—	—
Lapeer	—	—	—	—	—	—	—	—
Lenawee	3,400	3,400	16.7	56,900	3,600	3,550	18.9	67,100
Livingston	—	—	—	—	—	—	—	—
Macomb	—	—	—	—	—	—	—	—
Monroe	2,600	2,550	17.0	43,400	2,650	2,600	19.9	51,800
Oakland	—	—	—	—	—	—	—	—
St. Clair	1,150	1,150	17.9	20,600	1,000	850	19.4	16,500
Washtenaw	—	—	—	—	—	—	—	—
Wayne	—	—	—	—	—	—	—	—
SOUTHEAST (9)	7,250	7,200	17.1	123,000	7,450	7,140	19.3	138,000
STATE	144,000	142,000	20.5	2,911,000	137,000	110,000	20.8	2,288,000

BARLEY: Acreage, Yield, Production, 1986-87

DISTRICT & COUNTY	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Alger	450	400	54.3	21,700	550	500	54.0	27,000
Baraga	250	200	55.0	11,000	200	180	50.0	9,000
Chippewa	1,100	900	48.0	43,200	1,000	900	45.6	41,000
Delta	3,500	3,200	64.3	205,600	3,500	3,200	56.3	180,900
Dickinson	400	350	58.0	20,300	500	450	53.3	24,000
Gogebic	—	—	—	—	—	—	—	—
Houghton	450	400	55.0	22,000	350	320	50.0	16,000
Iron	50	40	55.0	2,200	—	—	—	—
Keweenaw	—	—	—	—	—	—	—	—
Luce	400	340	50.0	17,000	400	370	48.6	18,000
Mackinac	400	340	50.3	17,100	450	420	44.4	20,000
Marquette	400	340	57.1	19,400	400	370	52.7	19,500
Menominee	2,300	1,800	62.7	112,800	3,000	2,600	58.5	152,000
Ontonagon	100	90	51.1	4,600	100	90	50.0	4,500
Schoolcraft	700	600	55.2	33,100	700	650	48.5	31,500
UPPER PENINSULA (1)	10,500	9,000	58.9	530,000	11,200	10,100	54.0	545,000
Antrim	100	90	46.7	4,200	150	130	51.5	6,700
Benzie	—	—	—	—	—	—	—	—
Charlevoix	400	330	50.0	16,500	600	540	52.8	28,500
Emmet	300	230	47.0	10,800	300	270	53.0	14,300
Grand Traverse	100	90	46.7	4,200	80	70	50.0	3,500
Kalkaska	—	—	—	—	—	—	—	—
Leelanau	—	—	—	—	—	—	—	—
Manistee	150	120	45.8	5,500	150	130	49.2	6,400
Missaukee	80	70	48.6	3,400	80	70	51.4	3,600
Wexford	—	—	—	—	—	—	—	—
NORTHWEST (2)	1,200	1,000	48.0	48,000	1,400	1,250	52.0	65,000
Alcona	500	460	59.8	27,500	650	570	55.3	31,500
Alpena	750	710	54.9	39,000	550	470	53.2	25,000
Cheboygan	600	560	54.5	30,500	550	480	56.3	27,000
Crawford	—	—	—	—	—	—	—	—
Iosco	300	270	57.8	15,600	500	450	57.8	26,000
Montmorency	400	360	53.6	19,300	500	450	52.4	23,600
Ogemaw	750	710	59.4	42,200	700	630	54.3	34,200
Oscoda	100	90	54.4	4,900	100	80	53.8	4,300
Otsego	100	90	54.4	4,900	250	220	54.5	12,000
Presque Isle	750	710	59.2	42,000	650	600	56.3	33,800
Roscommon	50	40	52.5	2,100	50	50	52.0	2,600
NORTHEAST (3)	4,300	4,000	57.0	228,000	4,500	4,000	55.0	220,000
Lake	—	—	—	—	—	—	—	—
Mason	400	350	46.6	16,300	250	220	52.3	11,500
Muskegon	150	130	48.5	6,300	300	270	48.9	13,200
Nemadji	100	90	47.8	4,300	200	180	50.0	9,000
Oceana	250	230	48.3	11,100	140	120	48.3	5,800
WEST CENTRAL (4)	900	800	47.5	38,000	900	800	50.0	40,000
Clare	450	410	57.8	23,700	500	460	52.2	24,000
Gladwin	450	410	52.0	21,300	450	430	53.5	23,000
Gratiot	150	130	54.6	7,100	350	330	56.1	18,500
Isabella	1,600	1,400	50.7	71,000	1,900	1,700	54.7	93,000

B A R L E Y: Acreage, Yield, Production, 1986-87

D I S T R I C T & C O U N T Y	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Macosta	500	460	50.7	23,300	750	700	50.7	35,500
Midland	50	40	50.0	2,000	200	180	50.0	9,000
Montcalm	1,400	1,300	45.8	59,500	1,900	1,800	51.1	92,000
Osceola	600	550	52.9	29,100	950	900	50.0	45,000
CENTRAL (5)	5,200	4,700	50.4	237,000	7,000	6,500	52.3	340,000
Arenac	200	150	56.0	8,400	400	350	57.1	20,000
Bay	300	270	56.7	15,300	400	350	57.1	20,000
Huron	12,500	12,100	57.9	700,400	11,500	11,000	64.5	710,000
Saginaw	300	280	47.5	13,300	450	460	60.5	26,000
Sanilac	5,300	5,100	57.8	294,800	6,900	6,400	66.9	428,000
Tuscola	2,300	2,100	50.4	105,800	2,200	1,900	61.6	117,000
EAST CENTRAL (6)	20,900	20,000	56.9	1,138,000	21,800	20,400	64.7	1,320,000
Allegan	400	330	47.3	15,600	400	350	55.7	19,500
Berrien	50	40	52.5	2,100	100	90	55.6	5,000
Cass	700	630	47.9	30,200	700	630	55.6	35,000
Kalamazoo	150	120	48.3	5,800	150	130	57.7	7,500
Kent	850	750	51.2	38,400	1,000	900	57.8	52,000
Ottawa	300	250	46.8	11,700	600	550	50.9	28,000
Van Buren	450	380	47.9	18,200	650	600	55.0	33,000
SOUTHWEST (7)	2,900	2,500	48.8	122,000	3,600	3,250	55.4	180,000
Barry	250	200	46.0	9,200	350	320	57.8	18,500
Branch	500	450	46.9	21,100	200	180	63.9	11,500
Calhoun	200	150	45.3	6,800	300	270	64.8	17,500
Clinton	800	750	49.9	37,400	600	540	63.0	34,000
Eaton	300	250	51.2	12,800	350	310	64.5	20,000
Hillsdale	50	40	47.5	1,900	50	50	60.0	3,000
Ingham	400	350	50.0	17,500	300	270	63.0	17,000
Ionia	1,950	1,700	51.5	87,500	1,050	950	62.1	59,000
Jackson	300	250	44.0	11,000	200	180	61.1	11,000
St. Joseph	200	160	47.5	7,600	200	180	63.9	11,500
Shiawassee	750	700	50.3	35,200	1,700	1,550	62.6	97,000
SOUTH CENTRAL (8)	5,700	5,000	49.6	248,000	5,300	4,800	24.5	300,000
Genesee	400	330	52.7	17,400	880	810	59.3	48,000
Lapeer	750	700	55.3	38,700	950	900	61.1	55,000
Lenawee	200	150	52.7	7,900	250	230	63.5	14,600
Livingston	50	40	55.0	2,200	100	90	61.1	5,500
Macomb	100	90	54.4	4,900	150	130	57.7	7,500
Monroe	80	70	58.6	4,100	150	140	62.9	8,800
Oakland	—	—	—	—	—	—	—	—
St. Clair	900	750	54.0	40,500	900	750	56.0	42,000
Washtenaw	900	850	52.2	44,400	900	840	63.1	53,000
Wayne	—	—	—	—	—	—	—	—
SOUTHEAST (9)	3,400	3,000	53.7	161,000	4,300	3,900	60.3	235,000
STATE	55,000	50,000	55.0	2,750,000	60,000	55,000	59.0	3,245,000

POTATOES: Acreage, Yield, Production, 1986-87

DISTRICT & COUNTY	1987				1986			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Cwt.		Acres		Cwt.	
Delta	1,100	1,070	260.0	276,000	950	900	280.0	254,000
Dickinson	1,000	970	250.0	240,000	1,400	1,350	235.0	320,000
Iron	200	190	290.0	61,000	400	400	240.0	96,000
Luce	700	680	210.0	143,000	700	700	200.0	141,000
Marquette	500	490	280.0	137,000	350	350	270.0	95,000
UPPER PENINSULA (1)	3,800	3,700	250.0	930,000	4,400	4,300	240.0	1,032,000
Antrim	1,300	1,250	370.0	463,000	1,500	1,450	350.0	510,000
Emmet	450	440	195.0	86,000	600	570	250.0	143,000
Kalkaska	800	780	310.0	242,000	1,200	1,160	270.0	314,000
Manistee	400	390	280.0	109,000	700	670	240.0	162,000
NORTHWEST (2)	3,200	3,100	310.0	952,000	4,400	4,250	290.0	1,233,000
Alpena	300	280	230.0	64,000	500	470	230.0	108,000
Otsego	900	870	260.0	226,000	750	700	180.0	126,000
Presque Isle	3,500	3,350	240.0	797,000	3,900	3,300	220.0	727,000
NORTHEAST (3)	4,900	4,700	240.0	1,134,000	5,400	4,700	215.0	1,011,000
WEST CENTRAL (4)	200	200	250.0	50,000	300	250	250.0	63,000
Gratiot	300	290	300.0	87,000	400	300	260.0	78,000
Mecosta	1,000	970	305.0	294,000	1,700	1,500	290.0	435,000
Montcalm	10,300	10,150	310.0	3,131,000	13,000	10,700	345.0	3,667,000
CENTRAL (5)	12,000	11,800	305.0	3,615,000	15,600	12,900	330.0	4,280,000
Arenac	1,700	1,650	190.0	313,000	2,300	800	225.0	180,000
Bay	5,400	5,300	200.0	1,067,000	6,800	4,900	230.0	1,127,000
Huron	550	540	200.0	108,000	750	450	245.0	110,000
Saginaw	450	450	200.0	90,000	600	300	230.0	69,000
Sanilac	500	490	220.0	108,000	—	—	—	—
Tuscola	1,400	1,370	200.0	274,000	2,000	700	230.0	161,000
EAST CENTRAL (6)	10,000	9,800	200.0	1,960,000	13,000	7,300	230.0	1,679,000
Allegan	1,600	1,550	285.0	440,000	2,000	1,500	240.0	360,000
Kent	550	530	295.0	156,000	500	400	280.0	112,000
Ottawa	200	190	220.0	42,000	300	250	190.0	47,500
SOUTHWEST (7)	2,600	2,500	275.0	688,000	3,100	2,400	235.0	566,000
Barry	400	370	280.0	100,000	650	400	210.0	84,000
Eaton	700	690	225.0	155,000	650	400	225.0	90,000
Jackson	250	230	230.0	53,000	—	—	—	—
Shiawassee	200	190	280.0	53,000	200	130	215.0	28,000
SOUTH CENTRAL (8)	2,000	1,900	250.0	477,000	2,500	1,600	220.0	352,000
Genesee	400	390	270.0	105,000	500	250	200.0	50,000
Lapeer	600	590	210.0	123,000	650	100	240.0	24,000
Lenawee	1,100	1,050	210.0	220,000	1,900	1,550	250.0	389,000
Macomb	400	390	200.0	78,000	500	350	140.0	49,000
Monroe	1,900	1,800	210.0	382,000	1,800	1,600	250.0	400,000
Washtenaw	700	690	170.0	116,000	700	600	250.0	150,000
SOUTHEAST (9)	5,300	5,100	210.0	1,064,000	6,300	4,600	235.0	1,088,000
STATE	44,000	42,800	254.0	10,870,000	55,000	42,300	267.0	11,304,000